Amateur Radio Station LOG

AMERICAN RADIO RELAY LEAGUE

NEWINGTON, CONNECTICUT, U.S.A.

CALL SIGN

VP5D

VP5D

END 11/30/89

VHF only

Book No. Start 964

From

To

$2.50 U.S.
$3.50 Elsewhere

OPTIONAL

ATTACH PHOTOCOPY OF YOUR LICENSE HERE.

IMPORTANT—FILL THIS OUT

CALL SIGN _____

Station Location _____
(Street Address)

_____
(City/Town)

_____ _____
(State/Province) ZIP/PC (Country)

Time entries are in (check one): ☐ Coordinated Universal Time (UTC)

☐ _____ Time

Operator's Signature _____

EMISSION TYPES

The FCC has issued an elaborate list of emission designators. For convenience, the following common abbreviations may be used instead.

CXR	Steady, unmodulated pure carrier
CW	Telegraphy on pure continuous wave
MCW	Tone-modulated telegraphy
SSB	Single-sideband suppressed carrier
AM,DSB	Double sideband with full, reduced or suppressed carrier
FAX	Facsimile
FM	Frequency or phase modulated telephony
RTTY	Radioteletype
AMTOR	Time Diversity radioteletype
DATA	Packet radio, telecommand, telemetry
P	Pulse
TV or SSTV	Television or slow-scan television

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ABOUT THIS LOG

THE ARRL UNIVERSAL LOG

Many radio amateurs keep a detailed log of their on-the-air activities. Such facilitates confirmation of QSL requests, investigation of potential TVI/RFI complaints, and detection of unauthorized use of your call sign. A neat accurate log is a matter of personal pride with the active radio amateur.

The ARRL Universal Log suits every type of amateur operation: DXing, contests, ragchews. The left-hand segment of the log sheet contains generally **fixed** information which is not subject to change between contacts. This includes DATE, FREQ, MODE, and POWER. Consult the inside cover for mode designation. The power should be indicated in watts output.

The right-hand segment of the log sheet contains the **variable** items that will change from contact to contact. This includes TIME (UTC recommended and indicated on inside cover), call sign of the STATION WORKED, and RST REPORT SENT and RECEIVED. The TIME OFF column may also be used to log EXCHANGE information for state QSO Parties and contests for which separte log sheets are not used. This column is located adjacent to the REPORT RECEIVED to facilitate this use. Otherwise, the station operator may use this column to log TIME OFF for ragchews and casual contacts. The COMMENTS column may be used for QTH, NAME, and QSL infomration, or any other information that the operator wishes to note. The COMMENTS column should also be used to indicate any variation from the standard information required on the inside cover. A checkmark will indicate QSL send and receive.

Be sure to fill out the information on the inside cover.

LOG REQUIREMENTS

There is no longer any requirement that radio amateurs keep a record of their operations in a station logbook. On an individual basis the FCC may require a record of station operations to assure compliance with its rules. Information pertaining to specialized operations such as repeater, auxiliary and remote control still have to be kept as station records. Consult ARRL's *FCC Rule Book* for details.

We are still encouraged to keep records of our operations. This is especially true of experiments and activities that may contribute to the state-of-the-art. There are practical as well as sentimental reasons for keeping a log. The following information may be entered:

1) The call sign of the station, the signature of the station licensee, or a photocopy of the station license.

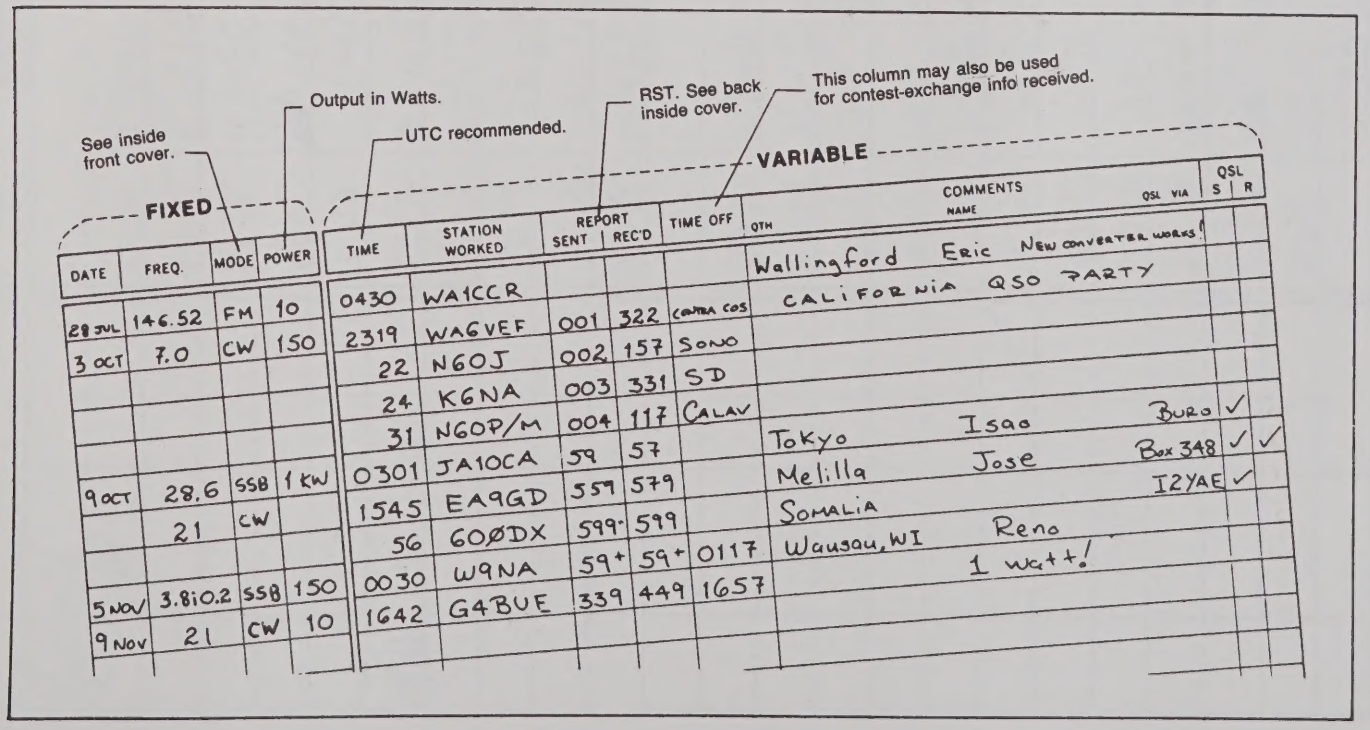
2) The locations and dates upon which fixed operation of the station was indicated and terminated. If applicable, the location and dates upon which portable operation was initiated and terminated at each location.

3) The date and time periods the control operator for the station was other than the station licensee, and the signature and primary station call sign of that control operator.

4) A notation of third-party traffic sent or received including names of all third parties, and a brief description of the traffic content.

AVAILABILITY OF LICENSE

You must have your original license (or a photocopy) with you when you are operating mobile, portable, or guest-operating at another station. At your own station location your may post your license (or a photocopy) near the operating position in lieu of having it on your person. A convenient place is provided on the inside cover of this logbook for attaching a photocopy of your license. If you are guest-operating, you must have available for inspection the station license (or a photocopy) for that station, in addition to your own operator's license.


See inside front cover.
Output in Watts.
UTC recommended.
RST. See back inside cover.
This column may also be used for contest-exchange info received.
FIXED
VARIABLE
DATE
FREQ.
MODE
POWER
TIME
STATION WORKED
REPORT SENT
REPORT REC'D
TIME OFF
QTH
COMMENTS NAME
QSL VIA
QSL S
QSL R
28 JUL 146.52 FM 10
3 OCT 7.0 CW 150
9 OCT 28.6 SSB 1 KW
21 CW
5 NOV 3.8 10.2 SSB 150
9 NOV 21 CW 10
0430 WA1CCR Wallingford Eric NEW CONVERTER WORKS!
2319 WA6VEF 001 322 CONTEST COS CALIFORNIA QSO PARTY
22 N6OJ 002 157 SONO
24 K6NA 003 331 SD
31 N6OP/M 004 117 CALAV
0301 JA1OCA 59 57 Tokyo Isao BURO ✓
1545 EA9GD 559 579 Melilla Jose Box 348 ✓ ✓
56 6ØØDX 599 599 SOMALIA I2YAE ✓
0030 W9NA 59+ 59+ 0117 Wausau, WI Reno
1642 G4BUF 339 449 1657 1 watt!

STATION NOTES:

068 069

7/06- 1123 LT / W4RFR — N4LTA - KINFE

1809 LT / N4LTA — Poss W3VD BWIGW — N4LL

FR/

J RR RE

N4LTA

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
7/05	89								VE2STL BCN 085.6		
	144.2			1924	K3MLD	56	56		KB8RQD -192/ 205 -		
				1925	KI3W	57	55		FN10 - Scotty		
				1925	KB8RQ	57	58		EN80		
				1927	WA4MJD	56	57		EM86		
				1929	K4JQU	58	59		FM06		
7/06	50.110	SSB		2212	AA4EJ	59	59		EM73 ED		
				2213	WB4IGG	59	59		EM75 Dave - Cleveland -		
				2217	W3IFM	59	59		FM19 Larry		
				2218	K3VGX	57	57		FM19 Brian (FN07)		
				2218	N4NFS	59	59		EM84 - SC - Steve		
				2220	WD4AFY	59	59		EM92 - Andy		
				2221	K4CKS	59	59		AL - EM74		
				2221	W4FSO	59	58		FM14 - Alex		
				2222	KD3DQ	59	59		FM19		
				2223	K3AKR	59	59		FM18 - John		
				2224	W3ZZ	59	59		FM19 - Gene -		
				2227	W8QXO	59	59		EM71 - GA - George		
				2229	W4GJO	59	59		-		
				2229	N4TJ	59	59		FM04 TVM -		
				2233	KB4OOW	59	59		EM74 -		
				2233	WE4N	59	59		FM07 ED -		
					WB2O4C						
				2236	WD4AFY				Andy - 912 - 238 - 4676 -	M	
				2238	WQ4V	59	59		DUN - EM65		

K4CNN / K4AE / W4USW 7.15 - 5 Andy

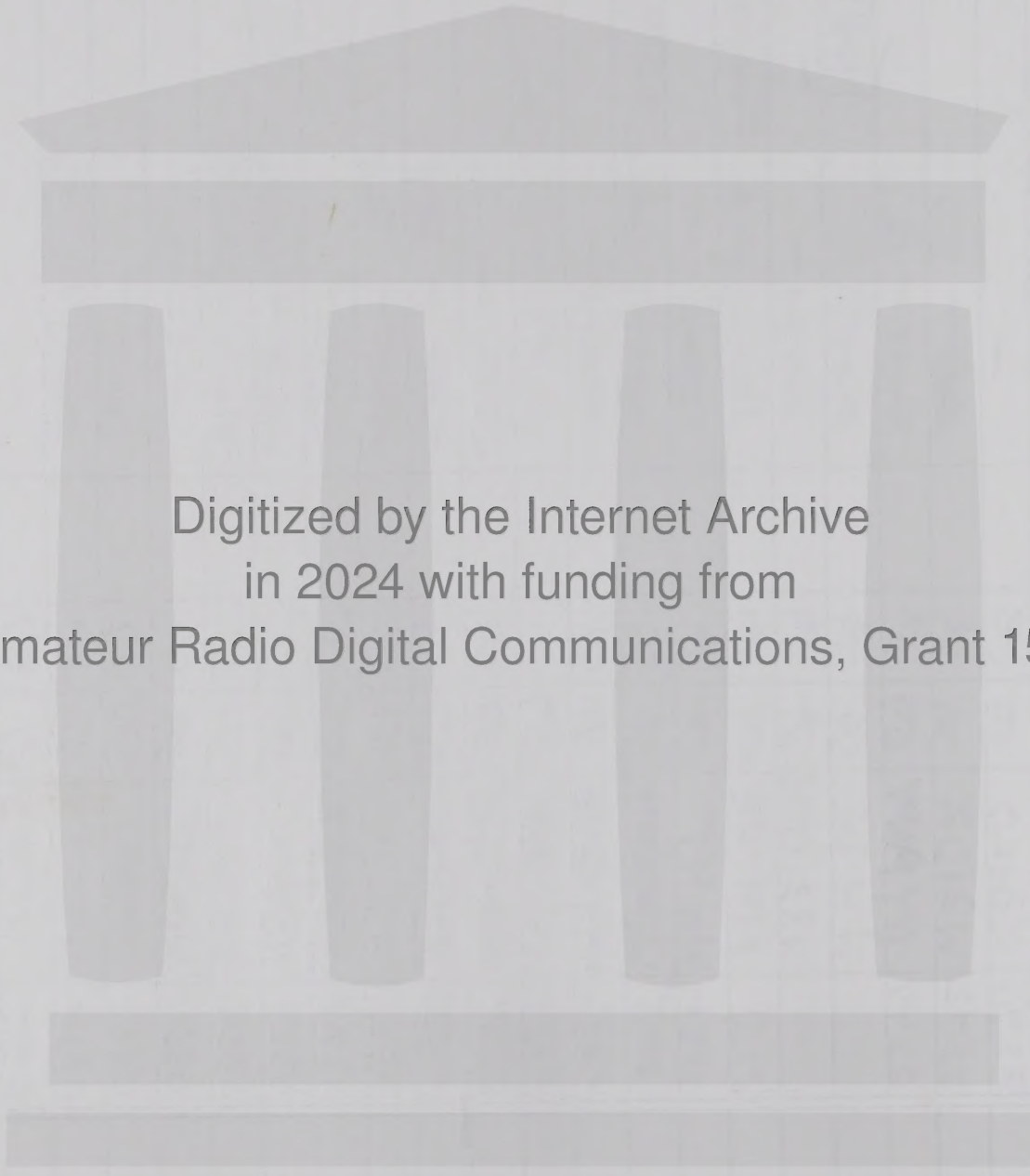
aCONBC 4PZ
FLORIDa

FL 3|

Bca
7/07
063.5 — N4PZ 1336Z / KINFE
20592 — N4LTA /
2233 — YE2STL — 085.3 / N4LTA / W4RFR
0853 068.0

RFR

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
				2239	W3 OTC	59	59		IG-BUB		
				2239	W4F X	59	59		- RA SC -		
				2240	K3MLD	59	59		-		
				2242	W2IDZ	59	59		~~NAU~~ EDD -		
				2247	N4AWV	59	59		FM01 - BIT		
					W4DR	59	59		FM17 - [8R1RPN]		
					WB2OTK	59	59		EM84 -		
				2251	N4HB	59	59		Henry - Va FM17		
				2252	WW4T	59	59		EM83 -		
				2255	WA4CTY	59	59		EM73 Gene		
				2256	WA4QVE	59	59		FM18 -		
				2256	N4ORP	57			83 - DONNA		
				2258	WA4JNE	57	57		EL99 - FLA.		
7/6	-			0326	K4CX	57	53		EN85 - BIT		
				0327	W5JME	57	57		EM15 - BUB -		
				0329	W7IDZ	55	55		GN06 -		
				0329	N4LL	55	55		EM09 - Lenny - KS		
				0330	W4NRI	57	57		DM71 - FLA/MC		
				0330	W4ETJ	59	59		DM79 - KaW		
				0332	W5SFW	56	57		DM95 -		
				0334	WB5QVM	57	57		EM13 - JOM		
				033-	W5VAS	57	57				
				033-	W5DA	58	59		DM95 - GA		
				0331	N5NDW	55	57		EM25 -		
				0336	~~CARSON~~ WR0N	59	59		DM79 JOM		



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DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
7/08	50.120			0339	K6QX4	55	57				
				0339	N5UD	59	59		JIM TX		
				0340	WB5ADC	59	59		EM52MS - MIKE		
				0341	WGQUV	55	55		CM98 -		
				0342	WB5GDN	57	59		EL49		
				0343	KB4WM	56	56		JUAN EM63		
				0344	W5MJD	59	58		DM45 Joe		
				6344	K5TA	55	55		DM65 - NM		
				0345	K4RZB	59	59		EM70 - JIM		
				0346	KB5PX	57	57		49 - N.O.		
				0347	WA5JCi	59	57		EM21		
				0348	N5EAA	57	57		DM25		
				0348	W5FF	59	—				
				0349	WA5OLT	57	57		TX		
				0350	N5TP	57	57		EM13 - TX Pete		
				0351	WQ5S	57	57		EM13		
				6352	K5EFW	55	55		DM69		
				0353	N5CTE	55	57		EM12 FM MI		
				0353	NG5HBi	55	51		CM87 AA7A		
				0356	WM5G	33	52		—		
				0359	WG5JKV	52	52				
				0400	WG5KH		52	4M	CM97 34/34 mm		
				0410	KD5QO	33			EM52)		
				0555	AA7A	55	57		— CW ag N 2NOAKC		
									0417 N0BSA .133	W	1SC.
									23 EN44		

712 - 164.7 - 0535 —

7/08 – 50.122 – Phone off Hook – OSB – 030 on 210 – 1200 + → 13N →

50.051.8 KINFE 59+

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
[illegible]	[illegible]	[illegible]	[illegible]	1558	W4DR	[illegible]			[illegible]		
				[illegible]	[illegible]	[illegible]			[illegible]		
				1606	[illegible]	59					
				1608	[illegible]	59			[illegible]		
				1609	[illegible]	59					
				1613	[illegible]	59			[illegible]		
				1615	[illegible]	59			[illegible]		
				1618	[illegible]	59			[illegible]		
				1620	[illegible]	56					
				1624	[illegible]	59			[illegible]		
				[illegible]	[illegible]	57			[illegible]		
			(155)	2,3	N4GDI - W[illegible]	145	1612	65	[illegible]		
				1622	[illegible]	55/[illegible]			[illegible]		
				019.5	GB3SIX	1637	339	055			
				1642	TI2NA	57			G		
				1644	KØCS	55	55		[illegible]		
				1645	N2GBY	55	46		[illegible]		
				1655	(G4AHW)	337					
				"	GJ4ICD	337					
				1705	AC3T	59	59				
				1724	WS[illegible]	59	59				
				1726	WA6DNH	57	59		5F		
				1726	KA1GD	59	59		[illegible]		
					W4GJO	59	59		2300 - 2330		
				1729	WA6KLK	57	57				

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
	50.110	SSB	150	1729	WN6W	57			CM88		
	"	"	"	1730	WB6VYH	58	59		Bob - CM98		
		"	"	1731	KG6JO	56	57				
				1732	K7LDT	55	55		DM43 - AZ -		
				1733	W7CI	56	57		DM41 - AZ Dave		
				1735	KGHHJ	56	56		- Granny P43AS - Mike		
					CFL						
				1738	W6JKV	58	59				
				1738	WA4LOX	59	59		EL87		
				1738	W7RV	59	59		DM43		
				1738	KG6IID	55	55				
				1739	KG6IBY	59	59		DM13		
				1740	KI6GC	59	59		CM97		
				1740	WA7JTM	59	59		DM33		
				1741	WG6OMD	58	57		CM87		
				1741	KF7NP	59	59		DM33		
				1741	WB7 CFZ	57	57		DM43		
				1743	KI6BUI	55	55		DM04		
				1744	WB7ETR	57	57		DM43		
				1744	KA7KVJ	59	59		DM43 John		
				1745	N6TKW	57	57		CM88 Dan		
				1746	W6BJI	59	57		DM06		
				1747	WA4NKL	59	59		EM80		
				1747	KE7OT	58	59		DM43 Gary		

DATE	FREQ.	MODE	POWER

TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
1748	WGRCW	51	58		GM98		
1748	W7FG	57	57		EM26		
1749	WGQUV	59	59		GM98		
	~~IN9~~						
1750	NF6L	59	59		DM13		
	~~KW7~~						
	~~WF~~						
1751	AD4~~R~~	59	59		EM25		
1752	W5 OZI'	59	59		R: - EM66		
1752	WA5 OCP	56	56		DM61 OCP		
1754	WA6KOU	59	59		DM12 Bill		
1754	K7ZOIC	59	59		HAL DM26		
1755	WD6MHM)?	59	59		A3 -		
	~~KH7~~						
1756	WA7YWM	59	59		DM33		
1756	WGBA	59	59		DM14 Bill		
1756	KL7Q	59	59		DM13		
1757	AD6C	58	58		DM04		
1758	KGMNO	58	56		Jim - A3 DM42		
1801	NGDX	59	59				
1801	KC7MJ	57	57		DM41 A3 Jim		
1802	WBJRP	55	59				
1803	W5 SXD	59	59		EL29		
1803	KC2TXh	59	59		D A3		
1805	WA6JR	59	59		DM14		

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
			5503	~~GSBT~~							
				1806	K6STI	59	56		DM13		
				1806	NGCW	54	54				
				1806	NGDHZ	56	57		DM30		
				1806	WØOGH	57	57		DM43 – A3		
				1807	WB6FCS	58	54		DM14		
				1808	N7DB	57	52		CN85 —		
				1809	WB6OKIC	58	54		DM13 —		
				1810	WAGHXD	58	58		DM03 – TONY		
				1811	NG6HZ	57	54		DM04 – DUD		
				1811	N6NTi	58	57		DM14		
				1812	K5ZXE	54	54		TOM		
				1812	WB5YWi	54	59		EM15 – OKC		
				1813	W5VGC	55	58		DM65 —		
				1814	K5EFW	59	59		Hemp DM64		
				1814	WD5ERG	55	57		EM10		
				1815	N5JM	58	58		EL49		
				1816	KF5AL	59	55		EM13		
				1816	KAHOQS	59	59		EM90		
				1817	K4YTi	59	59		EM72		
				1818	KD4LT	59	59		EM81		
				1818	WA4FCC	59	59		EM73		
				1819	KF4YBi	59	59		EM81		
				1819	N4JL	59	59		EM70		
				1820	WA4DOY	59	59		FAYET NC		

0924

SAS DCE ON UTU AT DOP. TODAY NV ML PASTCON UNIX

CAY RASI NY SAS WS CAIC

CSID-Reamp

WBSLDT/

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
				1820	N4TKI	59	59		FM06 - NC		
				1821	WA4QYP	58	58		FM16 - VA		
				1821	K4ARO	59	59		FM17 - Ga		
				1822	WGCPL	59+	59		DM04		
				1823	KGCH	59	59		DM13		
				1824	KGJEK	59	59		DM03		
				1825	KG DYP	59	59		Jan - DM12		
	$20			1826	NGKW	59	59		DM03		
				1827	KGGMV	58	59				
				1827	WDGHDY	58	559		CM89		
				1828	W7ABX	57	57		DM09 - FG/FG		
				1829	W5EW	55	55		EM12		
				1829	KZ3H	59	59		FM19		
				1831	W7ANA/5	33			DM61		
				1832	WGEJR	55	55		DM14		
				1832	W4BCL	59	59		EM51		
				1833	KSWTA/	59	59		EM90 - Jake - Hanna		
				1836	W7HMS/	59	59				
					7-4						
	$1			1836	WGWVK	57	57				
									CT4KD - J79T - P43AS		
				(1912	Sme 6s/4s/5s)				< WB4 - GCW - DM12/N4CA -		
				(1919	K6RTU/1929 - N6TX/W5SKI/				064 - WB7 N4PZ 063		
				(1920	TWO TO W 2SV STX - (WB5CMB)						

4311

B Co 77
WB400

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
7/08	50.	SSB	150	2215	NS JAV	59	59	NM	DM62 Dave — (15N)		
				2222	WA5 WUD	59	57	La	- Jack - New Orleans		
				2229	WA5QIB	56	58	La	750 - (La) EM40		
				2232	N4BIJ	59	59		EM62 - ZF / DC - BTI		
				2234	WA7IGV	57	57	N3	DM42 - Dan		
					(IKINFC BL 559) (0643 - WB? —) (VE1MX Calling CQ 14c) 140						
					(KF3NP / KA7CVJ 9 4 WM TU YC 109 - IE 2 140)						
7/09					0018				VE2-STL 0955 / ? 0956 / IKINFC /		
				0024	K1CLN	57	58	FN42	WB4UNI - 029.6		
				0025	N4WW	57	57		EL98		
				0026	KA5W24	57	57		EM73 Neal		
				0027	WA4NJL	56	59		EM78		
				0027	K4 DNS	57	59				
				0027	VE1YX	57	57				
				0028	N4GTT	58	59		FN24		
				0030	WB4CTW	59	59		EM74 TN		
				0031	KB2SSZ	59	59		FN31		
				0031	VE CDWI	59	59		FN45 MTL		
				0032	W2 LFL	56	57		EM65 Jim		
				0033	K4CIT	57	57		FM54		
				0034	WN4YIH	57	57				
				0034	NV4G	57	57		FM43		
				0034	K4LHT	59	59		FM42		
				0035	K4RSA	59	59		FM43 Hans		

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
				0036	VE1ACB	57	57		FN66 Wayne		
				0037	N7IKM/1	59	57		FN34 VT		
					W1RDC	57	59		FN43 BM NH		
				0038	W1JFX	59	59		42		
				0039	K1JRW	59	57		FN32		
				0040	N1IH	59	56		FN42		
				0041	W4ZXT	59	59		EM85 DUC		
				0042	N4QH	59	59		EM84 LYLE		
				0043	WB4MLE	59	5		EM72 AL		
				0043	N4LXF	57	59		EM53 SC		
				0044	N5AXJ/4	57	55		EM86 - JIM		
				0045	W1JR	56	57		FN42 -		
				0045	KA1CR	59	59		FN42 Dave		
				0047	KA1TE	57	53				
				0047	W1EYZ	59	59		FN34 - VT.		
				0047	VE1MR	55	55		FN54 BOB		
				0049	K1OYB	55	54				
				0050	WA1RDL	58	54		FN41 Dave		
				0051	W4LN	55	55		EM73 -		
				0051	KA1MVB	59	59		FN54		
				0052	WA1YVO	55	55		FN42 Gary (YVO)		
				0053	WB4HIE	59	57		EM55 JIM		

$$\begin{array}{r} 120 \\ 7.5 \\ \hline 600 \\ 840 \\ \hline 900 \end{array}$$

WATTS

$$\begin{array}{r} 35 \\ 9 \\ \hline 315 \end{array}$$

$$\begin{array}{r} 315 \\ 24 \\ \hline 1260 \\ 630 \\ \hline 7560 \end{array}$$

$$\begin{array}{r} 7.54 \\ 30 \\ \hline 226.80 \end{array}$$

$\times .35 = 315.9$ PIP $= 87.50$ PIV $= 226.80$ PIM

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
		(39?)	3M	0054	N9AXA	59	59		S		
				(0057 - N4ASM)							
				(0119 - KINFES55)							
7/09			(2048	- W1C ... 10S ...)							
			(2048	- WB2CWS) 102 WA							
7/10			13mW	- 13mW/							
7/22	50.1	SSB	15W	225	VE1ACB	58			1		
				2258	VE1AST	59					
7/23	53 5mW	CW	N	[illegible]	W0ZT ...				BCWS -		
				KPCB	0.1 BK - SMC						
	21?? -	K4UH		00?	W3WN 21?? /	2121		N4BLL			
	223? -	PA0HW		P 329	50.1 x 2 -	2 W		- 45°			
	50.103	CW	15W	2252	RB2CW	589	559		JU2L (5M/23W) (PA0HW)	45°	
				2305 -	ANTON 50.05? -	45°					
				2357 -	AA WC Cmns						
7/10	144.2W	SSB	15W	1402	K4HZE	59	59		ED WC		
				1411	K4CIC	57	5		ACW GC		
					WA4Y						
				1420	KY4R	59	59				
				1423	KC4YO	56	59		EM 78		
				1425 -	WB4 TWX	57	55		CM95 - JACK		
				1426	WB4VTC	55					
7/13	"	"	"	1231	VE3BMM	59					
7/14	7357 -	SSB	[illegible]	[illegible]	[illegible]						

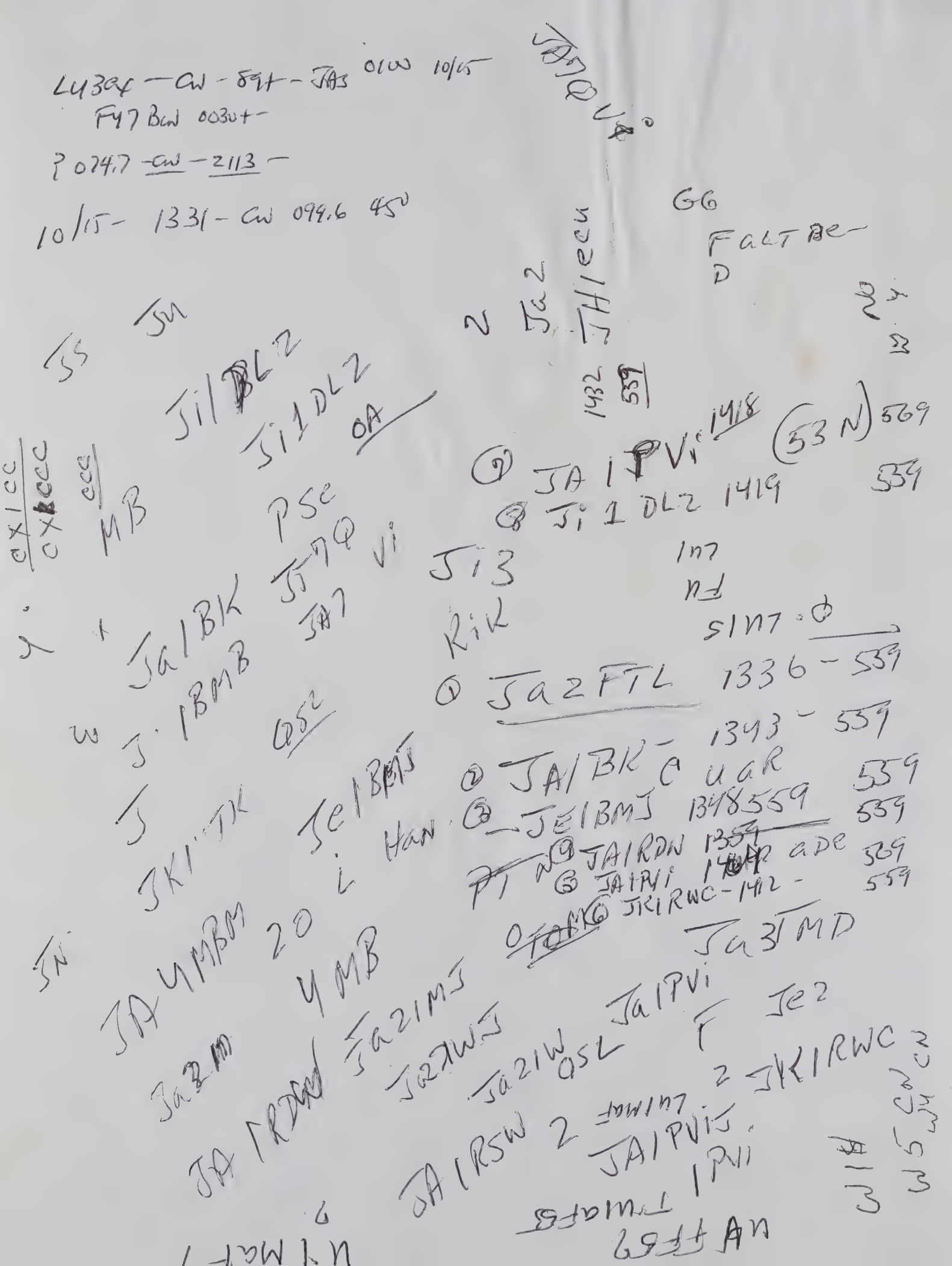
TO W3bwc 7/22/81

LU3QC — CW - 89t - JA3 0100 10/15

FY7 BCW 0030+

?0247 CW - 2113 -

10/15 - 1331 - CW 099.6 45°



DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
10/15	50.059	CW	10	1336	JA2FTL	569			All 120° ↓ [Noise level S7 to 9]		
				1343	JA1BK	569					
				1348	JE1BMJ	569			[WKD F 10/9 TO 10/16 Plages TO 11/06 TO 11/13]		
				1354	JA1RDW	569					
				1404	JA1PVi	569					
10/15	50.			1412	JA1RWC	559					
				1418	JA1PVi	569					
				1419	JI1DLZ	559					
	6M4			1432	JA1ECU	559			Sigs gone 1450 A		
			2230Z	- ZD8 VHF 559 —							
10/16			0235Z	- LU1MA - 080.2 449 FF 57							
				CX1CCC - 020 ? 229							
					- 70.8 224 ? - FSK LU1 S or F						
			2147Z	- ZD8 VHF 224 - gone 2232							
10/17			0231Z	- no sigs —							
			2246Z	- ZD8 559				- gone 1322Z			
10/18			1240Z		K1ICW BK'D	ZB2 VHF	- 579 PK	035.5	125° 105° 125T HC5K 024T FSK CW 60° 90° 1300 very WX		
10/19			0006Z	CX2IY, CX8BC ZF1BC 57 TOP,							
			0226Z	LU1DMA - 070.9 FSK 339				LU8DM 080	& FF 57		
			1129	ZB2 VHF 129 CT ΦWW		024Y 339	1147	>	Both Bands 45 7090 - Gone 1247Z		
			~~1306Z~~	N/							
				1509	K7VNW/Φ	59	53		DM59 John — Col.		
				1510	K7ICW	59	59		AL NV.		
				1511	KA7WO3	59	54		DN04 — Rich Wyoming		
	067 - KØFV			BCN/							

HC 5K

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
10/19	2055	ZD8 VHF	229	/IN-OLS							
	22547 - PY2DSG		116	56 (QRM LOW)							
			1a								
10/20	0005 T	074 - PY2AMI		339, 092 spread 5?, SSB TO 56,		V4 Slow CW			085 LU1MA		
						019 - CX1CC (C?)					
	SSB TO + 20 cy - 0038/										
	0237 - 084/ 70.4 LU1 DMA/ SSB 57 PK/										
	Gone MUST OF day - NV SIGS 160, 220										
10/21	- " " " -			UNBOOKED Grnd Op							
10/22	- 0000 - 0025 - NS										
	1147 - ~~NS~~		339								
	1255 - 9H1BT			TO HC1B		FSK 0389, 0355					
				1302	9H1BT	559	419		V4 WIC (MN) 2053		
	1304 - SSB 1027 SS -130°, HC5K										
	1323 - HC1BI WKD PY2BM -										
				1328	9H3LF	339	339				
	1336 - OAB			TO YV1KB	/1343 - 034 FSK/						
	106.9			1354	ZS3KC	559	539		Jack JG77		
	105.0			1411	ZS3E	55	579		(ZS3AS 123)		
	1424 - WIC 039 FSK			/ 035 FSK	/ 030 FSK 90° - V4 BAD -				030 CT DOWN		
	1430 - 9H3 ON 50.110			/ 1437 WAI OUR BIKS 50 MHz					035 - ZB2 VHF		
	1456 K3WW 110			/							
	1533 - 035 VHF		119	YV4W4 105 BIKS TO 53,		/ 1556 ZB2 119					
	1700 - 035 - ZB2		119 559								
	2301 - WIC VK4 + W BIKS - 290 - 290					+ CX8BE	NIL TG				
10/23	0203 V - NS										
	1362 V - OAB ABI TO 9H1										
	2000 V - SS 30 110 [SSTD Book]										

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
10/23	50.110	SSB	100	2014	LU4DBK	55	55		GF11 - Flora		
		2103 V		2108 VHF	CX1CCC	134?	55 55		CX4AAJ 57 108 working SV1		
		2225 V		2208							
10/24		0300 V		NS							
		1144 V		NS / 1229 NS /							
		2115		2108 VHF / 2208		50.110					
		2230		SG9							
10/25		1202		0229 / 0235	1219	CT1BT TO 2L?			FG3 / FG6CBC		
				1226	KP4A	339	569		FG / FG6CBC		
				1229	F9DI	339	539				
				1237	PA0HIP	559	539				
				1240	VE1YX	559	559				
		1246	BLW 50.100 - AM + FSK?								
				1252	CT1DTQ	339	559				
	1313 W1KS 2? W1CBTS			1314	OA8ABT	59	59				
				2131 V	ZD8 339						
10/26				0140 V	F47 559 +30 PIC	037.9					
	144.008 / 150 /			0141	HC8K	59	59		HC8K		
				0145	HC5T	59	59		- FG? - 10 W 3 el Cubical		
				0148	CX8BE	57	55		- - Jorge		
				0150	LU8MBA	57	59		FF5? - GERRY		
				0153	HC2GE	57	59		FG0? - Jim 2 watts SSB		
				0159	HP3XYH	339	539		-		
		0230 V - FM?		still Pileup +30 - then QSB - other gone					down - LU working JA -		
				1332 V - HC8K BIG 120							

HP3XU -

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
10/26	50.109	SSB	1W	1334	HC8K	45	45		TED/120° BIC8/ JA/KH3/		
	1334-FM 229, 282			119, (120°)							
	1435-FM 339										
	50.109	CW	100	1623	PT9FH	529	529		TONY CORUMBA GH11- P.O. Box 243		
	2115 U - NO QSO			/QSO NO QSL/							
	2329 U - QSO 229			0433	DL3ZM/4Y5	59			← same 2mw ✓		
				2340	PY2WDX	22			WPX PY2WDX		
10/27	1216 U	Possible QSO							1240 ✓ → 141, 115 104, 83, 20, 35		
10/28	2322 U - NS										
10/29	2300 U - NS										
10/30	0455 - NS										
10/30	2256 - NS										
10/31	1330 U - CQ DX			569 PR down (50°)		589 PR		1407	← same 1412 T		
11/0	1230 U - NS			1305 NS - 1325 NS -							
	1356 U - 229 QSO w/			60°/ - MAY NOT be - drifting, AΦ					No SIGN FSK - down in freq (026.5 at 1401) with slow QSB		
	2223 U - 339 203 VHF			+ WIC PY or LU - Any Phone							
11/02	0205 T - HB 57/FM?			BCS 119/							
	1232	10W	CW	— + 019.3 (110		5V/DH 1237					
	? ALE?? - 1232?)			1256 337 282 VHF					down 1301 - 559		
	N? - 0259, 104 (119.8) (104.)										
				1305	CQ DX CN	56	57				
					ZADR						
				1307	PA3 FBW	57	53				
				1308	PA4 VAJ	56	56				
				1309	GØHNW	56	55				

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/02	0.105[16]	SSB	150	1309	G2AHR	57	56				
				1310	PE1 HXK	56	55		JO32		
				11	G3 KOX	55	55				
				1311	G3JO~~K~~	55	55				
				1311	G3POI	55	59				
				1311	G3 TCT	44	56				
					~~G RHW~~						
				1315	G3CEG	55	55		JO81		
				16	G3IMV	55	57		IO91		
				17	FC1LNU	55	57		JN		
				18	PE1EYY	559	55				
				19	GØJHC	56	55				
				21	GW4EAI	569					
				TV 20MT / 020 BCN?							
					L LZ0						
				26	~~G3 HHR~~						
					G3UVR	56	56		IO83		
				27	G3MY	56	59		IO93 mike		
				30	~~EA~~ EI6AS	57	5		63		
				32	G6HCV	56	56		JO		
				33	G4 ~~IDE~~	56	59		"92		
				34	G6 HKM	57	59				
				"	G6 LZ0	57	59		"93		
				35	G4S DI	56					
					G3NOH	57			"91		

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/02	0125	SSB	10W	1337	GW8TBG	56					
					G1DXI	57					
					G						
				1334	PA3ENI	559	59				
				1340	PE1DAM	55	59		JO32		
				1343	GW3MFY	55	55		F		
				1343	G1WRD	55	55		FO91 — MURRAY —		
				44	GW8YUJ	56	58		JO [illegible]		
				46	G3RFS	57	57				
				47	GGNB	56	58				
				47	G1WAE	56	59		83 —		
				48	G8IYG	56	57		82		
				48	G5NU	57	59		91		
					~~SRN~~						
					~~EM 56~~						
			1354	GB0SIX - 579		0149					
	1045	"	"	58	G4CCZ	59	59		JO91		
				1400	PA0RYS	59	59		~~GER~~ — JO22IM		
				1404	G3ENZ	59	59		IO93 — ART —		
				05	PA0HTP	59	59				
				07	GW6TBN	58	59		IO72 - Ryan		
				08	G3USF	57	59		83		
				09	G3CCH	59	59		93 JOHN		
				10	PA3FFU	57	59		JO21		

jSP eee/vvvv PYzami

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
	50.160	SSB	10W	1411	G3UUT	58	57		JO02 /		
				12	G3ENY	58	57		IO82		
				13	GG4CP	56	59				
				13	GIEMJ	58	59		82		
				14	GØJJG	57	59		JO02		
				15	GW4GSH	57	58		IO90		
				16	GW6ZMN	59	59		81 BILL		
				18	GIVPE	44	59		IO93 SC QRP		
				19	G8DKF	59	5		" 82 WN DENZIL		
				20	G4PHH	59	59		IO83 CORNWALL		
				22	GØGKC	59	59		92 FM JOHN		
				22	GIPAM	59	59		82 NELSON		
				23	GIUCN	57	59		92 -		
				24	GØBPU	57	58		JO02 -		
				24	GIZTY	57	59		- FRED		
					EI6AS						
				26	EI2CB	33	57		—		
				28	GGXNW	57	59 20		IO86 ANDY - LIVERPOOL		
				29	G4DGM	55	56		" 82 WN - GORDON		

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1433 - PHIL BUT SIX OLY game + PA3EUL 123.6

1533 - all Sgs Gone

2233 V - NS

11/03 0041 T F47 70.5 PK CX 1CCC 224 / 0857 224 / 73.0 339 PY2AMI / 070.7 LU1BMA 339 FSK /

0130 T → Some —

0234 T - NS

B67IF ALT 6000 ft / 2/-

NT GP LAT 22 4 LONG 47 16

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/03	50.	SSB	100W	(D BenHam Col, Calcek 1500 - 1600 A)							
	2124 V — NS			E 08 W							
11/04	0005 — 114 FY7			Direct /							
	1228 — PY9FH 048			6 - 599 - CHCJD G / PY2DW4 / 2 / 1							
	1247 110 - FC — 229			60 / FFOKS 10T SSB/35 / SV1BE 55							
	107	SSB	100	1258	SV1OE	1252 55	55		PY9FH KM		
				1259	SV1DH	33	31		SV1BE FC eF		
					~~SV1OE~~				FM05 /		
				130	SV0BY	44	45		IBH		
	1300 / FSK 034 SV1SIX?			1259 / 029 579		54					
				1306	SV1EN	56	57		FY2! /		
	120.8			0A8AB5 / FC: 1315							
	1319 - GY4 339 /			1322 TNCmno - / 2TM		1W	ZB2VHF 579				
	1342 - AA Bmt			2132 229 gone							
	1442 - NS										
11/05	0324 — FY7 SSB								MI & U RST		
	1210 NS / 1240 NS /								VY5D DE PY9FH FB NW5		
	CW 100			1240	PY9FH	5X	589		TUNY GHI RBOB 1 TNX QSO		
	< PY2AMU 559 >			1315 NS /					4		
	2327 ✓ NS								LO		
11/06	1205 ✓ — NS			OX 3 VHF	599 - 1400	0445 /	1429 Some				
	2149 ✓ — ZD8 VHF 119 /										
11/07	— 0130 ✓ — FY7 559 (CW)										
	0345 ✓ — NS										
	1228 ✓ — ZB2 VHF 559 /			QSJ - Slow - IN/OUT							

PY9FH / PY9

59

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/07	50.114	SSB	10W	1237	~~EA8~~/CØKPW	59	59		IL-18		
	.100			1238	~~EA8~~/G3JVL	59	59		IL18		
	(105)	1240		15 ON BICS							
	(046)	13W		35 ON BICS							
	110	SSB		1544	WA~~Ø~~D4H/7	~~59~~	59		DN32 JOHN		
				1548	W6~~KH~~	~~58~~	57		CM57		
				1548	KH6PP/7	~~56~~	56		DM37/7 - BR-Gene-		
		<068		KG6FV/6 - 59							
				1555	KC7iJ	57	57		DN44 (10Am/Montana Wes)		
				1558	WA6QiB	59	59		DM06 16W Found		
				1559	WA8~~ALH~~	59	59		CM88 / Steve / KG6F ~~FB~~/6 → ↑		
				1601	W7~~JI~~	59	59		DN35 / 16W		
				1602	W~~N~~6~~TW~~	59	59		CM88 /		
				1602	W6WVK	59	59		CM89 Cathie		
				1602	WA7FPO	59	59		DM34 - 66W		
				1603	W7HAH	59	59		DN26 -		
				1603	KA6ING	57	59		CM87 Louise		
				1604	N7NQO	59	59		DN23		
				1604	KG6XM	59	59				
				1605	N6XQ	59	59		DM12		
				1605	W6~~EB~~D	57	59		CM45		
				06	N6ZA	59	59		DM59 Rod		
				07	N7AMA	57	59		DM33		
				07	N6iPL	59	59		DM68		
				07	WA7YWM	59	59		33		

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/07	50.124	SSB	10W	~~1508~~	W6BJF	59	59				
				1509	KC6PXT	59	59		Lee		
				1510	KC6GNW	59	59		~~Cleone~~ DM14 George		
				1512	N6HBi	59	59		CM87 Russ		
				1513	~~KF~~7 Vu	59	59		DM36 - MT - Barry -		
				1513	~~K~~KG6STi	59	59		-		
				1514	K7LDT	59	59		DM43 -		
				1514	N7BPA	59	59		DM26 - Jack		
				1515	W6BA	59	59				
				1516	AA6DD/6	57	57		DM03 WT1		
				1516	WA7VHW	59	59		DN07 - CT3 / WB6NOE / EM00NK.		
				1517	W6JRV	59	59				
				1518	N6DX	59	59		DM04		
				1519	WB6BMB	59	59				
				1519	W6EL	59	59		DM06		
				1520	WA7CJO	59	59				
				1520	N7DB	59	59		-		
				1521	WB7REL	59	59		~~DM49~~ with Barry		
				1522	KC6DV	59	59		-		
				1523	WA6DAW	59	59		DM14 Paul		
				1524	N6AJ	59	59		- Jerry -		
	134			1526	WA7JUQ	59	59		DM26 - OR	TM65X	
				1526	KG7ZK	59	59		DM03 -	CT	
				1527	WA7RAi	59	59		DM33 Chuck		
				1528	W7LOV	59	59		- 2L Bob		
				1528	K 7QV	59	59				

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/07	.134	SSB	1W	1529	KGTPG	59	59		Carol DM03		
				1529	W7FN	58	55		Don		
				1530	W7iNX	59	59		CM85 - IGW		
				1531	WA7MFJ	55	55		Ross Riverside		
			1GW	1532	KGFVE	57	57		CM87 -		
				1634	W7TWF	59	59		DM26		
					~~FNG~~ X						
				1634	KGUWD	59	59		Mason -		
				1635	NF7X	59	59		87 - Wash.		
				35	K7DBR	59	59		-		
				36	K7MRU	59	59		CN87		
				36	N7EiS	59	59		17		
				36	W7ZSL	59	59		-		
				36	K7VNU	59	59		CN87 John		
				37	WB6CMG	59	59		B6 DM14		
				37	KA7LNH	59	59		DN17		
				37	KA7MCX	59	59		CN87 = John		
				37	N6WHL	59	59		DM4 -		
			1705		NW7K 0730	59	57				
	2322 - NS										
11/11/87	(B04)		1111	1319	PE1LMP	59	59		JO21 - South		
				1320	GM4iWJA	59	59		IO87 -		
					~~PE1B~~						
				1321	SK7SW	59	59				
				1321	PA2HJS	59	57				

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/11	127	SSB	100	1322	PA~~Ø~~ ~~EJM~~ (PE3 AMX)	55	55		75 / 58 miles / JO		
	119.8	"	"	1328	GMGRGN ~~GD5i~~	59	59		IP90 / BDN		
	127.0			1334	~~DLØSi~~ (DL4Si)	599	59				
				~~1336~~	~~PE1AM~~ ~~LA5Ø~~		59		JO73 TOTALS opening		
				1337	LA6OJ	59	59		JO28 OH-16		
				1339	LA4Di	59	5		JO59 LA-7		
				1340	SM7BKH	59	59		SM-11		
				1340	SMØMXR	59	59		89 PA-32		
				1341	~~OH~~5Y ~~OH~~	59	59		KP30 GM-3 G-19		
				1342	GM4YWQ	59	59		JO87 DL-2 W-1		
				1342	LA3EQ	59	59		JO28		
				1344	OH1YP	59	59		86 ~~90~~		
					<1350 - MUF 51+>						
					<OX3VHF 579>				024 ~~PA~~ OH		
	182			1425	G3ZSS	59	59		JO91 ~~PGER~~ OH1SIX		
					<1428 - 57.014 MUF ↓)				1404 VE2FGA +76 BIG		
					<1435 - MUF 50.543↓) (1444 655↑) (1450 421↓)				206.3 -		
					1452 - OX3 599 / 059 GB3RMK				114.7		
					1456 - all TV gone / TEN WK GM, OH, WA4NCP 165.8, OX3 579 / 1402 W5FF 092 / OH3NJC						
					1544 V - OX3 339						
					1621 V - NS						

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/12	144.23	CW	100	1142	FD1FVP	559	559		/CT1DTO[107]		
	.187	<1157 Z32	VHF[225]	>	<1207 KP4A[119] BICS	>					
		<1216 GB3SX	119	>	<049.2 GB3NHQ>				KG4SM TO 140		
		<KG4SM[55]	BICS - 140 1234>		PE/LA/				HH7PV - 125		
		<1238 -	019 029. /1234 EASY TV /	KP4EJT[55]	/ SM7BAE[110] 57 /				KP4EJT - 120		
		<1306 04	/	> <130 46.0	NOT TV? 77.4 ?				- 130		
		<1330 TV	014[6] / GB3[049] SPL	> <135 - GB3	FADED - GM4 TO TI2HTC, WAS —				- 110		
		/1353	187.3 PP (CW)	>	TI2CO - 1356				- 145		
		<1354 - GM4 EWX only 05 signal		>					- 105		
		1516[V] - NS							GJ4ICD -		
		1520 - 1524	? (61) 113.9 - 310°								
		1754[V] - 7	57 WN,						0161 CW		
	150.6	SSB 100			~~N7BNJ~~	57	52		LARRY Tacoma CW57		
		SSB 100	1804	KA7BZS	44	41			DN17 /KF7TJB/		
		SSB 100	1812	KF7TJB	43	52			DN06/		
				KC7CX Hml	105 05 1829/153.1 -				W7FV[W] ex		
				<Regency	1445[LT] - KL7HF TO CA		CW 129 /		Burbank - 1445 - SV 137.1 / 122.8		
11/13	0103[TT]	FM	5[SFI] 20	(0385 CW - Tune 39.0 TORD)							
	1130[TT] -	CW 09 -	115 / 1227[V] NS/								
	2330[TT] - NS										
11/14	0211[TT] - NS										
	1125[V] - NS / 1150[V] - NS (Vel 4X Wkg GJ4/FY5 BICS +1442 /)										
	1152 - CW 113.9 - Vel 4X - Hdng 90° - Wkg GJ? - V4 Bruno - 45 TO 90° >										
	1232[V] - ZB2[229] 9/1235 ZB2[559] 59 /TV at 032.5 / CT4 WW[229] /								FM 29		
	1250[V] - ZB2[225] / GB3[229] / PA4HQ[229] /										

W-10

eLØB
K4EV/
9

55

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/14/88	1254 PE1LWL		35	1255	PE1LWL	57	58		CC65 / JO20XV / HOE RLEN – 09°–		
	110 <			1259	G1[illegible]4DZ	57	59		Alen – BCN / 1640 – 1720 – ON 135M –		
				1300	G[illegible]4TCO	57	58		–		
				< 232 55TH 334 > < 1306 CTB 229 >							
				1427 V – 0X3 559 PX / 0550 CWT /							
11/15/88	< 0034 V – NS >										
	0213 – NS >										
	1150 V – 038, 035, 029 – all EASI – 119/229/										
	122.3 AM										
	1200 – G1DJO 229 –			– 035, 029 only VY WEAK 080 – 035 at 60° & 90° –							
	1230 – 038 229 / 035 119			/ G1DJO 229 /							
	1330 V – 0X3 559			/ 1432 V 0X3 559 / 1434							
				QSB					IK4 WKG EL0 (15° BKS IK4) / 1541 – TV at 011.9 @ 30.0 / 1238 / 1546 – TV TV 1150 +		
									5NN		
	110 <			1450	OH3EX	559	579				
				1452	OH5IY	559	579				
	< 1604 – TV gone – OH2TJ 229 – 0X3 559 PIC / 0558 /										
	< 1631 V – NIS			< 2000 – NIS					KL7WE BCN 06C		
11/16	0005 V – FY7 559 HV4 0SB										
	1145 V – NS / 1225 V NS / 1242 V NS										
	1445 V – 128.7 EN72 IK4			OWBKS GM0 / 0X3 559 / 0942 PIC UA 165 080					KBWIKZ 1450 128.7 / 155 CHASE TF3EJ /		
	1520 TF3EJ 145.7 3XU			/ 1622 0X3 339 / 2023 NS / TO 22W NS							
11/17	0145 V – NS										
	1230 V NS – 1537			PA0 IRS BCN 26.16 / CW 091 NO 45V 090 / TV 015, 030, 045, 060, 075, GB3SIX 30' Antenna					PA 0 R 0 S		
				1547 GB3NHQ 579 W/ Voice mailbox –					1		

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/17	1549 –	024 –	Gu	all By Sally Good Signal – Rec'd –							
	110	SSB	1W	1552	G2BUP	57	57		Laurie | Bath Sw Eng. 10 Watts/Sel		
				1555	G4AHN	59	59		Ivy | Rochdale		
				1556	G4UPS	59	59				
				1557	G6CGQ	59	59		Bob –		
				1559	G42HML	55	57		Ian 89		
	A/F2			1600	GI8YDZ	57A	57A		Ivor also direct – BMS East Antrim		
				<1605 – all gone>							
				1610 – GB3SIX 229A					GI4G		
				1618 – GB3NHQ 339 /					G4GLT		
				1620 – GB3SIX 579 Direct /					/ BK 130.9		
		10W		1623	G4GLT	579	58				
				1624	G3ZYY	55	55		Ivor		
				1625	G6ION	33	52				
				<1626 G4AHN 579> GB3 [illegible] IN							
				<1634 V – NS>							
				<2330 V – N(S)>							
11/18	0152 V – NS			W6JKV							
	1138 Fade IN – 28 2 VHF			1148 Fade IN – Gone By 11.55 – BK 115?							CW 129.6
	50.040			1151	W6JKV/KT3	559	559		Jimmy Madonna Islip		
	<1158 2B2 229/GJKV 339			GB3SIX 229 BRIAD / 2D8 559 MB 1st Appear /					K		
	<1202 NO SIG / CQ DTG			1206	9H1BT	55	57		GI8YDZ BKS 12/0 KG		
				1210	9H1CG	33	57				
				1213	GI8YDZ	55	55				
	<1222 – 282 TO 559 / 2D8 579 / G4 229 / GB3 559 /										

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/18	50?		100	<1231	VE1YX 224 / some GS BICS / 4 BCNS			Some			
				<1235	QTH 104.9 SSB /						
	50.119	SSB	100	1239	F1JG	59	59		JN23 - JACK -		
				1242	FC1BLL	59	59		JN23 -		
				1244	FC6PE	59	59		JN23 - GIL -		
	205			1246	G4TIF	33	51		IO92 -		
				1247	G8BCL	33	54		IO91 -		
				1249	G3OIL	33	54		IO91 -		
				1250	G1GVA	33	52		IO91 - TONY		
				1251	G3XBY	55	57		IO92 - Dale		
				1252	G8YYB	33	55		IO91 -		
					EP						
	<1253	024 BCN?		GB3/CTV / 282	0X3 1ST 559 / GB3NHF		059.8 ?		KINFC BICS		
	305 - 55-7			1-2-3-4 BICS -	149.4 FM? -		RCVED /		SEVOY Common -		
	214 40-60M - SYNCTIPS			1314	FC1JG	57					
	<1348 1ST TV - BCNS			SSTV on 20M / SV1SIX 339 /							
	50.123	SSB	100	1328	D44BC	59	59		JIM - 30L / 25W / From N6CW		K2SX
				1337	VO1MP	55	5'				
				1340	D44BC	59	59		HIC HC ICP4, UA, HI8 JUL 20		
	<1354	0X3 579 / 282		VHF 55? /	some 1403 282 229		BIC TV /	1405 -	124.2 5NØ / G3GJQ		
	<1408	SV1SIX 229		CTOWN 339 /	1414 2B2 59+ RCD /				V47SIX - SEE K5TR3 /		
	<1441	A3 7's -		59 / ONLY	0X3 559 BCN /						
	50.123	SSB	100	1453	VE2IKV	59	59		Frank - 75S. FOGO Same 2		
				1456	WD8MHM	59	59		DM43 - 50.13 / 60.		
				1458	IKN5S	55	55		-		
				1459	KD9XR	59	59		DM43		

G I KaRR BIC

N5WHV

6

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/18	127	SSB	1W	1501	W7GG2	59	59		DM42		
				1503	HH7PV	55	55		FK28 Past		
				1506	ZF1RC	55	55		Rojen — YE2NN		
				1510	VO2AG	59	59		Dun — FOG2 — VO2GD —		
				1514	W3JOHF	59	59		DM42 — TVE V N4LTA		
				1515	W7RV	55	51		— A3		
				<VE1HD FN46 > COX3 59 >							
				< 1542 French 50.1W / GB3SIX 579 >					[TF3EJ 111 LISTEN 4] < OGO BCN 104.9 QT3 / 119.8 O		CP / BP
	.136			1552	VO2GD	59	59		Beam - FOG2 2 Watts / 179.1 3		
				< 1557 - GB3 Gme / BIC Wicks 1559 + OH BCN 024/+282 229 / OX3 59+ / HF 1W / RICT							
				1607 - 024 119 /					< 1610 144.7 GAB? LE7HL		
				< 1615 TI2KD / KG45M 030° BIKS >					1626 ZCO GIKO3		
	103			1621	TI2KD	59	59		— TI2NA 022.4 BCN /		
				< 1635 SC 70258 BIKS - NE > < 1540 ICWS3 559 SME > < OX3 1253 IST - TO 1653 = 4 HRS > 59+ QSB - 1644 - KØTSI - COL.							
				1644	VE4KCQ	55	51		EN19		
				< 1704 - OX3 59 / NØLL 229 BIKS 0° / DL32M / 443 1719 CW 148 33					2Na	05 Pa	
	195			1730	VE6BCC	59	59 TU		DO 86 - 55D / Gel - Ernie	6, HL	
				1734	W4OWJ	33	55		EL95 - JACK - 2N QSL - WANT		
				< 1242 N4LTA ON BIKS - 100 > 229				2K2QIE	KAØAYN /		
	134.8			1745	8P6JW	55	55	(JOHN)	GIKO3 - TRANS ON 117.3 K-5 5.2N		
				1847 < 8P6 55 / OX3 59 PK / DL32M 443 55 / < 1911 8P6 SSM 59 PK + >					W DC32M / 41 - KA ØLL		
				1922 V - FY7 ES? 339 / 1930 229 OX3 DIRECT / 1955 - DL32M/443 339 + 119 OX3 (1253 TO 1955 = 7+2M					108 Y KAØET		
				2110 V - ZD8 BCN FLUTTER					DL3ZM/4N3 2 W1 7		
				ZD8MB 104? 3.5 ZD8 VHF 229 / VY WKY FLUTTER					G4MAB QSL VIA ZD8MB 9QNX 5 W		
									KX4ZM / KG45M		

8P6J W

WAØ

ACK + CUT RTO DAY AGN NTX
QSO DB 73 G 4 KIZAE

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/18	<2347 - ZB2 VHF			224							
11/19	1638 - open			0358 224	MoM Station	Bks	595	1600-1635	125 cw Plm DL3ZM/YV5		
	1657	103.8		- Pse up - VE1YX/uB/WO/ouB/							
	1756 - DL3ZM/YV5			125 WKd G3 - WA9ouB - 55 Bks - PA3 - D44BC 56							
	1201 ZB2 VHF 1st			GB3SIX 339 Bks - + FY7				130	D44BC CQ		
	1213	104	60°	1216					V47SIX N4HSM FK87		
	1219 HW4 TV			1224 FC15G 58	/A6 1496	/ TV TO Pest		50.6	133.3 KG4SM ↑ TIO D44BC?		
	1230 1-2 TO 59 BKS -			/ WB2CUS/3 5+ 333		KNIFE			559 Bks 50° 120 ICP2A Fone		
	1236 GB3NHQ 54	dsr		/ FY7 33 / ZB2 55							
	[1239 SOLAR Noise Burst]										
	1249 - 044 4 0x3			1st QSO from - EAST OF TOWN					/ GB3SNH 54+ / FY7 45° 533 / TV 59		
	1251 - 175	Hc?	Bks	- 101 1308	CS3 + PJ9EE	100.5			/ +9H1BT /		
	1363 GB3SIX 54+			/ E24 57 Currently		/ GB3NHQ 54+					
				1320	PA60 / ON4AWQ/6	59	/ 59		PA60 / ON4AWQ/6 · 21 Pe		
					CK						
	<112 HB9JM - 1329			/ 1336 0x3 569 /							
				1345	V47SIX	57	59		59 FK8 - 2 N4HSM		
				1346	PA0 OOS	54+	54+		J33 - Jaap		
				1357	SM6CKU	59	59		J50 -		
				1354	SM6ESG	57	56-9		- Mongw YV4DDK/		
				1355	GM4ISM	59	59		J055 Mank		
				1356	GM0LIR	59	59		" - LiR -		
				1356	GI8YDZ	59	59		-		
				1356	PEI DTU	59	59		J023		
				1357	OH5NQ	59	59		- Petri		

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
				1358	PA3AOT	59	59				
				1358	G3KNU	59	59				
				1358	PE1LCH	59	59				
				1359	PE1JWV	59	59		JO33		
				1400	GI4OPH	59	59		IO74		
				1401	PA0GJV	59	59		JO32		
				1401	PA0RDY	59	59				
				01	G3BJD	59	59		JO84 -		
					PA3AOT	59	59		-		
				1402	PA8ANG	57	59		16 WATTS		
				1403	PA1LBDX	59	59		JO23		
				14	PA3DWD	59	59		JO		
					G4FXW	59	59		JO93 allen		
					GIEYL	59	59		93 STRATTON		
					G4FEM	59	59		93 PETER		
				05	G3UKV	59	59		82		
					PE1LWT	59	59		22 JURGEN		
					OH3OZ	57	59		KP20		
					OH3LK	57	59		KP		
					9H1BT	57	57				
					9H1GB	44	59				
					9H5L	44	59				
					9H5BU	44	59				
					9H5DM	44	59				
					9H1FM	33	53				
				1412	9H5CS	33	55		9H1ES		

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/19	•110	SSB	100		9H1ES	33					
					9H1[illegible]ARC	44	59				
				1416	OH1FA	59	59		KP10		
					OH2BGN	59	59		KP20		
				1417	OH6NR	59	59		KP30		
				1419	K8GQB	59	59		EN50		
				1[illegible]	KC4YO	58	59		EM75		
					K9 RX)4	55	59		EM54 SE 204 MK 005		
				20	K8 MFO	559	55				
				<1425 – 2B2/ OX3 599/GB3 [GW-JO+GM]							
				<1442 – OH2TT 136 55/GI8YD2 102 55/TV SSTV 59 30-45"							
					1454 WØQIN	559	449				
				1526 – SSTV WIC GEE G, plus WB1CKS 30+60' & Sime TV & OX3 579							
				1603V – G4/GB3NHO 229/OX3 57/GB3SIX 229/WIC QSB IN 005, 035							
				SWL GS 22-44 ww Cambs WIC's W1-8 + PA 7050.25+							
				1651V – GMØ WIC's, Ø5 40. 33/OX3 599/							
				1703V 110 VEGTWC?)/1723 OX3 559 + WIC W7 110							
				– 2215V 208 VHF 339/							
				2352V – " + 109.4+129.9							
					CX8BE+/ RODED						
				2357	CX8BE	55	55		Jungle/		
				2358	LU8AJK	57	55		B.A. GF05 /94		
				2359	LU3EX	57	57		– GF05 95 Countries –		
				0002	CX4HS	58	58		≠ AL[illegible] – Wheat Harvest –		

In after Hours Thru Sats

2WØF

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/20/81	50			1205	no ICD2A BIKS EMSI VP?						
				1223	2WØF	59	59		Hi 36 4 Watts/sec PY7ZZ		
				1224	PYØ FF	59	59		Hi 36		
TO W3HMC ↑									2YØFJ		
11/20				1244	CT3 22/44						
				1314	WGJKV/CT3	59	59		Du 1000 - / 2WØ 1100 /		
				1345	BIKS NE / vertus						
				135	039.4 - AMTOR - 33PK - 40° - RTTY / 024 - 22 GUSTAVE / 229 PK GB3SIX /						
				1354	030 015 124.2 TV WNC /						
				1424	015, 030 TV - GMØEWX / 44 W4OWE / 2WØF -						
				1521	WW2B - TO 2WØF / 0X3	59	1534 NO VISUAL				
				1607	NO 0X3			1741 NS			
				2122	NO S → BIKS →				008/025/030 041/063 2/22 SE		
				2323	ZD8 33 / + 070 to 745 ? 063						
					+ FY7 22						
11/21/81				0310	FY7 58						
				0310	0320 / HC5K	59+	59+		TED /		
				1132	NO SIGS (MS 109.7 at EMSI/CW)						
				1152	GB3SIX 229 40 TO 80° - Best 45° -						
				1213	G5, Beam TO 45° / 063 4 - AMTOR RTTY, AØ 60 4, GB3NHQ 22 48.9 / 1217 004 1ST TV -						
				1234	TV TV 59++ 50.5W+ - V4 MNI SIGS - Mini Strobes -						
	139			1236	G8VKW	55	55		FOSO ICOM		
				1236	G4CCZ	58	58		Paul		
				1238	G6NB	56	57		FOS/- Bill		
				1239	G5KW	56	45		IOOI =		
				1241	G3WOS	56	57		IO91		

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/21	50.13	SSB	1W	1242	G4 CUS	56	56		JO00		
				1243	G6 YGP	56	58		IO83 Dave		
				1244	G3 PFM	55	56		IO80		
				1245	G1SWH	56	58		IO83 -		
				1246	G2FA	56	56		-		
				1247	G3YEU	56	58		IO81 HS?		
	< 1245	TV game >	→ 1250	GB3NHQ	57	54.3 AQ			ZB2 119 / CQB 229 / O24 22 / G3351X 44 / LOG DTS / 33GF		
	< 1415 ✓	- NS	/ 1439 OX 119 /								
	< 1546 ✓	OX 119 /									
11/22	— 0334 — ✓	NS									
	1210 ✓	— NS									
	1538 ✓	— NS	/ 1709 ✓ NS								
	2240 TT	— ZD8	339 /								
11/23	— 0103	74.3 FSK 339 /	70.4 229 FSK / 119 CW						C		
	1250 ✓	122.3 —	150 AQ — QSB TU O UP TU S NW OTHER SIGS TU SO. 2S						WB4OOT		
	1400 ✓	"	SSB QSB (+2W TO 55 folks)						1WL/B		
	1502 ✓	— game	105 2						NØLL		
				1506	DL3ZM / YV5	55	55				
	[game 1510 11/23 TU 1815 11/24		NCKSL ONES]						6IGY		
11/24	1815 ✓	N/S	/ 2205								
	1296			2209 ?	KHØAC	55	55		SAIPAN - LONG - NORTH OF GUAM		
130	< 2214			2214	KGGDX	55	55		K7ZA / IN - ØK23 -		
					OBG BCN NOW		NØLL - WB4UNJ		(KH4)		
					WB3IGY -						
	< 2229 -	NJNC		TO KHØAC - BUSH STRONG / W7FN /					EL 7 WB4OOI		

< 2249 - BCNS FLA / WB3IGY / 2254 - KGGDX 33 /

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS (QTH / NAME / QSL VIA)	QSL S	QSL R
11/24	(2300 – KEGDX/33 / 160.7 – 23029			2305	2307 ? 339 ZD8VHF				(Z11/08/02 unsolicited – 2319		
	<2318 – 4S8CW3/WD4OSBN				074.7 /						
11/25	0035V – FY7 – 59(CF)				WY4 OSB/WKTE 114/						
	0155V – FY7YF 20				55/3 – 38.1 + Reeds (38.2) (CW – 0) 20.2 FSK / CW 101.5 /						
	1125V – NS Thrm			1231V – NS							
				1302	PT9FH	59	59		TUNY –		
				<VY WIC TI2 BICS>							
				1815V –	NS						
				2103V –	NS						
				2212V –	ZD8 569						
11/26	0012V	FY7 59+10		/ ZD8 339 / 18.9 229 / LU1, 33 (97 – AB ON/OFF TE)							
	Thrm 0045 Thrm										
	0400V – NS										
	1140V – NS										
	1303V – G6CMU 110 33			1306 OH2TI 55 +31	1313 OH1 110	1314 – TV			1329 PA0OS 59+40 NO BCNS – VY SPOTTY –		
	1341 – ZB2VHF Calme			339 / Domes – Victoria 114 gone 1352							
	1700 – FY7BLS 33 /										
	2132V – NS (N0ZD8)										
	2142 – VE7AFB W1=, HH7PV 110										
	2155 – He's Calling VE6 / HH7PV + VE7AFB again										
				2156	VE7 AFB	57	57		JIM –		
	W7ML /			2200	W7FIY	59	59		TED = WM – CW88		
				2202	N7ML	57	57		–		
				2203	W7FI	56	52		CW87		
				2203	VE7ASI	55	55		CW8		

WTINC
LL CQ
TI2HL

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS QTH / NAME / QSL VIA	QSL S	QSL R
11/26/89	2205 — 7S TU 1S			/2222 — WM7A 7S TU KP4B		181					
	2226 138.4 GN86 / 157			175.0 AH8AC JOHN /							
	2235 — KA7AJX — OR			WN / 2240 GN87 /							
	2249 — N7ML 145.4 /			179.8 145.4 2255	/ 2258 N7ML TU JA7			109.5 PY2CWH			
	2303 N7ML 145.5 / (CW)			BS) 2312 — TE 108.8 (110.5) LU-PY2DM / PY5EJ				102.5	/ 1817 N7ML OFF Back — PY2DM CW		
	2323 WA7HQG CW87 133.6 /			PY2DM 2326 OFF Back — 109.3							
	PM15 QSL										
11/27/89	— 0245V NS								FG / FG CBC —		
	— 1235V — NS										
	— 1410V — NS										
	1845V — KA7BZJ / N2II W7HAM (B) 59 / WA7HQG										
	2104V — 184 / 189 /										
	2220V — NS — Other Direction										
	2300V — FG7 56+										
11/28/89	— 1140V — NS			TU 1225V							
	1424V — NS										
	2045V — W7TUW on DL3ZM 1445 + 3 Carrier 112 / 1 —										
	2205V — NS			2300V — NS					WA7		
11/29/89	— 0217V NS								W7		
	1150V — NS					TN-51-3, OSB (45-50°)			LWN		
	1245V — NS			/ 1336V ⇒ gone 1342	113.6 / 67.2 / 004.3 / 35.4 / 57.1 / 82.5 /				/ 1428V NS		
				2127	TI2HL	59	59		Hans — EJ59 /		
				2128	V31PC	59	59		Don — EK56 / Direct !	#72	#72
				2159	K4RV	59	59		EM82 — Tom		
				2211	WA7OEM	59	59		Bob — CN87		
				2213	WM7A	59	59		Jim — CN87		

T15 55N
SM

DATE	FREQ.	MODE	POWER	TIME	STATION WORKED	REPORT SENT	REPORT REC'D	TIME OFF	COMMENTS (QTH / NAME / QSL VIA)	QSL S	QSL R
11/29/89	50.134	SSB	10W	2215	WA7HQG	59+	59+		QTH Eugene / John		
				2217	W7FN	59	59				
				2217	K5WTA(4)	59	59		(FLA)		
				2219	W7KQU	59	59		Ive -		
	↑			2221	KB7N	59	59		MERIC - CN97		
				2221	K7MKS	59	58		Ive - CN87		
	DEN 52-3			2223	K7YOH	58	58		- CN87		
	↓			2224	W7BL	57	57		- GLEN -		
				2225	KB3NR(4)	59	59		BUD / EL89 / - FLA.		
				2225	K7VNU	58	58		JOHN / CN97		
				2225	WA7QOE	58	57		CN96		
				2228	AH8AC	58	58		CN85 -		
				2228	W7INX	57	59		KEN CN85		
				2229	WB4JEM	59	59		JIM - EL89 (FLA)		
				2230	KA7MCX	59	59		JON CN87 (2F2AG)		
				<2238	160.1 / N7DB 2245	104.3 59	W400-V3RC / 2246 / 108.8		0746 2247 / WB4OSN		
	<2322 V-				NO EASTSBS >						
11/30/89	1205	Vel4X	KIIKN	BKS	WKSM V290A (60-75)		1214	119	ZB2 V4 BRWCO / 40-50 / 155 6 AØ7 / 45-60 TN?		
	1227 V- 239 ZB2			1236 V	CT# WW 119 + TN		1239 N4CW W2MD2 TN	123.8 108.5	1326 V- SSB2S G5 / W5BKS TN 040 - 45 GB3SIX 59+ 20 PK PROCESS		12.5 CW
	1329 SM7 FSW	339	SVIID	H	061 4 FSK - GB3NGI - 059				GB1RT / 049 GB3NHQ 59 -		
	115			1345	EI9BG	59+ 50	59		IO52 IBH / TOM		
				1357	EI2GB	59	59+		IO63 - DAVE SIK22 140.0		
				1358	GM4SZF	59	59		IO88 - ALAN - L		
				1401	GMØEWX	59	59		IO67 - COLIN		
				1403	ZL7AA	58	58		JO53 -		
				1404	PA3FBN	59	59		>L33		

Allocation of International Call Signs

Call Sign Series	*Allocated to*
AAA-ALZ	United States of America
AMA-AOZ	Spain
APA-ASZ	Pakistan (Islamic Republic of)
ATA-AWZ	India (Republic of)
AXA-AXZ	Australia
AYA-AZZ	Argentine Republic
A2AAAA-A22ZZZ	Botswana (Republic of)
A3A-A3Z	Tonga (Kingdom of)
A4A-A4Z	Oman (Sultanate of)
A5A-A5Z	Bhutan (Kingdom of)
A6A-A6Z	United Arab Emirates
A7A-A7Z	Qatar (State of)
A8A-A8Z	Liberia (Republic of)
A9A-A9Z	Bahrain (State of)
BAA-BZZ	China (People's Republic of)
CAA-CEZ	Chile
CFA-CKZ	Canada
CLA-CMZ	Cuba
CNA-CNZ	Morocco (Kingdom of)
COA-COZ	Cuba
CPA-CPZ	Bolivia (Republic of)
CQA-CUZ	Portugal
CVA-CXZ	Uruguay (Oriental Republic of)
CYA-CZZ	Canada
C2A-C2Z	Nauru (Republic of)
C3A-C3Z	Andorra (Principality of)
C4A-C4Z	Cyprus (Republic of)
C5A-C5Z	Gambia (Republic of the)
C62AA-C69ZZ	Bahamas (Commonwealth of the)
C7A-C7Z*	World Meteorological Organization
C8A-C9Z	Mozambique (People's Republic of)
DAA-DRZ	Germany (Federal Republic of)
DSA-DTZ	Republic of Korea
DUA-DZZ	Philippines (Republic of the)
D2A-D3Z	Angola (People's Republic of)
D4A-D4Z	Cape Verde (Republic of)
D5A-D5Z	Liberia (Republic of)
D6A-D6Z	Comoros (Federal and Islamic Republic of the)
D7A-D9Z	Republic of Korea
EAA-EHZ	Spain
EIA-EJZ	Ireland
EKA-EKZ	Union of Soviet Socialist Republics
ELA-ELZ	Liberia (Republic of)
EMA-EOZ	Union of Soviet Socialist Republics
EPA-EQZ	Iran (Islamic Republic of)
ERA-ESZ	Union of Soviet Socialist Republics
ETA-ETZ	Ethiopia
EUA-EWZ	Byelorussian Soviet Socialist Republic
EXA-EZZ	Union of Soviet Socialist Republics
FAA-FZZ	France
GAA-GZZ	United Kingdom of Great Britain and Northern Ireland
HAA-HAZ	Hungarian People's Republic
HBA-HBZ	Switzerland (Confederation of)
HCA-HDZ	Ecuador
HEA-HEZ	Switzerland (Confederation of)
HFA-HFZ	Poland (People's Republic of)
HGA-HGZ	Hungarian People's Republic
HHA-HHZ	Haiti (Republic of)
HIA-HIZ	Dominican Republic
HJA-HKZ	Colombia (Republic of)
HLA-HLZ	Republic of Korea
HMA-HMZ	Democratic People's Republic of Korea
HNA-HNZ	Iraq (Republic of)
HOA-HPZ	Panama (Republic of)
HQA-HRZ	Honduras (Republic of)
HSA-HSZ	Thailand
HTA-HTZ	Nicaragua
HUA-HUZ	El Salvador (Republic of)
HVA-HVZ	Vatican City State
HWA-HYZ	France
HZA-HZZ	Saudi Arabia (Kingdom of)
H2A-H2Z	Cyprus (Republic of)
H3A-H3Z	Panama (Republic of)
H4A-H4Z	Solomon Islands
H6A-H7Z	Nicaragua
H8A-H9Z	Panama (Republic of)
IAA-IZZ	Italy
JAA-JSZ	Japan
JTA-JVZ	Mongolian People's Republic
JWA-JXZ	Norway
JYA-JYZ	Jordan (Hashemite Kingdom of)
JZA-JZZ	Indonesia (Republic of)
J2A-J2Z	Djibouti (Republic of)
J3A-J3Z	Grenada
J4A-J4Z	Greece
J5A-J5Z	Guinea-Bissau (Republic of)
J6A-J6Z	Saint Lucia
J7A-J7Z	Dominica
J8A-J8Z	St. Vincent
KAA-KZZ	United States of America
LAA-LNZ	Norway
LOA-LWZ	Argentine Republic
LXA-LXZ	Luxembourg
LYA-LYZ	Union of Soviet Socialist Republics
LZA-LZZ	Bulgaria (People's Republic of)
L2A-L9Z	Argentina (Republic of)
MAA-MZZ	United Kingdom of Great Britain and Northern Ireland
NAA-NZZ	United States of America
OAA-OCZ	Peru
ODA-ODZ	Lebanon
OEA-OEZ	Austria
OFA-OJZ	Finland
OKA-OMZ	Czechoslovak Socialist Republic
ONA-OTZ	Belgium
OUA-OZZ	Denmark
PAA-PIZ	Netherlands (Kingdom of the)
PJA-PJZ	Netherlands Antilles
PKA-POZ	Indonesia (Republic of)
PPA-PYZ	Brazil (Federative Republic of)
PZA-PZZ	Suriname (Republic of)
P2A-P2Z	Papua New Guinea
P3A-P3Z	Cyprus (Republic of)
P4A-P4Z	Aruba
P5A-P9Z	Democratic People'e Republic of Korea
QAA-QZZ	(Service abbreviations)
RAA-RZZ	Union of Soviet Socialist Republics
SAA-SMZ	Sweden
SNA-SRZ	Poland (People's Republic of)
SSA-SSM	Egypt (Arab Republic of)
SSN-STZ	Sudan (Democratic Republic of the)
SUA-SUZ	Egypt (Arab Republic of)
SVA-SZZ	Greece
S2A-S3Z	Bangladesh (People's Republic of)
S6A-S6Z	Singapore (Republic of)
S7A-S7Z	Seychelles (Republic of)
S92AA-S92ZZ	Sao Tome and Principe (Democratic Republic of)
TAA-TCZ	Turkey
TDA-TDZ	Guatemala (Republic of)
TEA-TEZ	Costa Rica
TFA-TFZ	Iceland
TGA-TGZ	Guatemala (Republic of)
THA-THZ	France
TIA-TIZ	Costa Rica
TJA-TJZ	Cameroon (United Republic of)
TKA-TKZ	France
TLA-TLZ	Central African Republic
TMA-TMZ	France
TNA-TNZ	Congo (People's Republic of the)
TOA-TQZ	France
TRA-TRZ	Gabon Republic
TSA-TSZ	Tunisia
TTA-TTZ	Chad (Republic of)
TUA-TUZ	Ivory Coast (Republic of the)
TVA-TXZ	France
TYA-TYZ	Benin (People's Republic of)
TZA-TZZ	Mali (Republic of)
T2A-T2Z	Tuvalu
T3A-T3Z	Kiribati Republic
T4A-T4Z	Cuba
T5A-T5Z	Somali Democratic Republic
T6A-T6Z	Afghanistan (Democratic Republic of)
T7A-T7Z	Republic of San Marino
UAA-UQZ	Union of Soviet Socialist Republics
URA-UTZ	Ukrainian Soviet Socialist Republic
UUA-UZZ	Union of Soviet Socialist Republics
V2A-V2Z	Antigua and Barbuda
V3A-V3Z	Belize
V4A-V4Z	St. Christopher and Nevis
VAA-VGZ	Canada
VHA-VNZ	Australia
VOA-VOZ	Canada
VPA-VSZ	United Kingdom of Great Britain and Northern Ireland
VTA-VWZ	India (Republic of)
VXA-VYZ	Canada
VZA-VZZ	Australia
WAA-WZZ	United States of America
WAA-WZZ	United States of America
XAA-XIZ	Mexico
XJA-XOZ	Canada
XQA-XRZ	Chile
XSA-XSZ	China (People's Republic of)
XTA-XTZ	Burkina Faso
XUA-XUZ	Democratic Kampuchea
XVA-XVZ	Viet Nam (Socialist Republic of)

(Continued)

XWA-XWZ	Lao People's Democratic Republic
XXA-XXZ	Portugal
XYA-XZZ	Burma (Socialist Republic of the Union of)
YAA-YAZ	Afghanistan (Democratic Republic of)
YBA-YHZ	Indonesia (Republic of)
YIA-YIZ	Iraq (Republic of)
YJA-YJZ	New Hebrides
YKA-YKZ	Syrian Arab Republic
YLA-YLZ	Union of Soviet Socialist Republics
YMA-YMZ	Turkey
YNA-YNZ	Nicaragua
YOA-YRZ	Romania (Socialist Republic of)
YSA-YSZ	El Salvador (Republic of)
YTA YUZ	Yugoslavia (Socialist Federal Republic of)
YVA-YYZ	Venezuela (Republic of)
YZA-YZZ	Yugoslavia (Socialist Federal Republic of)
Y2A-Y9Z	German Democratic Republic
ZAA-ZAZ	Albania (Socialist People's Republic of)
ZBA-ZJZ	United Kingdom of Great Britain and Northern Ireland
ZKA-ZMZ	New Zealand
ZNA-ZOZ	United Kingdom of Great Britain and Northern Ireland
ZPA-ZPZ	Paraguay (Republic of)
ZQA-ZQZ	United Kingdom of Great Britain and Northern Ireland
ZRA-ZUZ	South Africa (Republic of)
ZVA-ZZZ	Brazil (Federative Republic of)
Z2A-Z2Z	Zimbabwe
2AA-2ZZ	United Kingdom of Great Britain and Northern Ireland
3AA-3AZ	Monaco
3BA-3AZ	Mauritius
3CA-3CZ	Equatorial Guinea (Republic of)
3DA-3DM	Swaziland (Kingdom of)
3DN-3DZ	Fiji
3EA-3FZ	Panama (Republic of)
3GA-3GZ	Chile
3HA-3UZ	China (People's Republic of)
3VA-3VZ	Tunisia
3WA-3WZ	Viet Nam (Socialist Republic of)
3XA-3XZ	Guinea (People's Revolutionary Republic of)
3YA-3YZ	Norway
3ZA-3ZZ	Poland (People's Republic of)
4AA-4CA	Mexico
4DA-4IZ	Philippines (Republic of the)
4JA-4LZ	Union of Soviet Socialist Republics
4MA-4MZ	Venezuela (Republic of)
4NA-4OZ	Yugoslavia (Socialist Federal Republic of)
4PA-4SZ	Sri Lanka (Democratic Socialist Republic of)
4TA-4TZ	Peru
4UA-4UZ*	United Nations Organization
4VA-4VZ	Haiti (Republic of)
4WA-4WZ	Yemen Arab Republic
4XA-4XZ	Israel (State of)
4YA-4YZ*	International Civil Aviation Organization
4ZA-4ZZ	Israel (State of)
5AA-5AZ	Libya (Socialist People's Libyan Arab Jamahiriya)
5BA-5BZ	Cyprus (Republic of)
5CA-5GZ	Morocco (Kingdom of)
5HA-5IZ	Tanzania (United Republic of)
5JA-5KZ	Colombia (Republic of)
5LA-5MZ	Liberia (Republic of)
5NA-5OZ	Nigeria (Federal Republic of)
5PA-5QZ	Denmark
5RA-5SZ	Madagascar (Democratic Republic of)
5TA-5TZ	Mauritania (Islamic Republic of)
5UA-5UZ	Niger (Republic of the)
5VA-5VZ	Togolese Republic
5WA-5WZ	Western Samoa
5XA-5XZ	Uganda (Republic of)
5YA-5ZZ	Kenya (Republic of)
6AA-6BZ	Egypt (Arab Republic of)
6CA-6CZ	Syrian Arab Republic
6DA-6JZ	Mexico
6KA-6NZ	Republic of Korea
6OA-6OZ	Somali Democratic Republic
6PA-6SZ	Pakistan (Islamic Republic of)
6TA-6UZ	Sudan (Democratic Republic of the)
6VA-6WZ	Senegal (Republic of the)
6XA-6XZ	Madagascar (Democratic Republic of)
6YA-6YZ	Jamaica
6ZA-6ZZ	Liberia (Republic of)
7AA-7IZ	Indonesia (Republic of)
7JA-7NZ	Japan
7OA-7OZ	Yemen (People's Democratic Republic of)
7PA-7PZ	Lesotho (Kingdom of)
7QA-7QZ	Malawi (Republic of)
7RA-7RZ	Algeria (Algerian Democratic and Popular Republic)
7SA-7SZ	Sweden
7TA-7YZ	Algeria (Algerian Democratic and Popular Republic)
7ZA-7ZZ	Saudi Arabia (Kingdom of)
8AA-8IZ	Indonesia (Republic of)
8JA-8NZ	Japan
8OA-8OZ	Botswana (Republic of)
8PA-8PZ	Barbados
8QA-8QZ	Maldives (Republic of)
8RA-8RZ	Guyana
8SA-8SZ	Sweden
8TA-8YZ	India (Republic of)
8ZA-8ZZ	Saudi Arabia (Kingdom of)
9AA-9AZ	San Marino (Republic of)
9BA-9DZ	Iran (Islamic Republic of)
9EA-9FZ	Ethiopia
9GA-9GZ	Ghana
9HA-9HZ	Malta (Republic of)
9IA-9JZ	Zambia (Republic of)
9KA-9KZ	Kuwait (State of)
9LA-9LZ	Sierra Leone
9MA-9MZ	Malaysia
9NA-9NZ	Nepal
9OA-9TZ	Zaire (Republic of)
9UA-9UZ	Burundi (Republic of)
9VA-9VZ	Singapore (Republic of)
9WA-9WZ	Malaysia
9XA-9XZ	Rwanda (Republic of)
9YA-9ZZ	Trinidad and Tobago

*The series of call signs with an asterisk indicate the international organization to which they are allocated.

ARRL RECOMMENDED PRECEDENCES

Please observe the following ARRL provisions for PRECEDENCES in connection with written message traffic. These provisions are designed to increase the efficiency of our service both in normal times and in emergency.

Precedences

EMERGENCY Any message having life and death urgency to any person or group of persons, which is transmitted by Amateur Radio in the absence of regular commercial facilities. This includes official messages of welfare agencies during emergencies requesting supplies, materials or instruction vital to relief of stricken populace in emergency areas. During normal times, it will be **very rare.** On CW/RTTY, this designation will **always** be spelled out. When in doubt, do not use it.

PRIORITY Use abbreviation *P* on CW/RTTY. This classification is for a) important messages having a specific time limit b) official messages not covered in the emergency category c) press dispatches and emergency-related traffic not of the **utmost** urgency d) notice of death or injury in a disaster area, personal or official.

WELFARE This classification, abbreviated as *W* on CW/RTTY, refers to either an inquiry as to the health and welfare of an individual in the disaster area or an advisory from the disaster area that indicates all is well. Welfare traffic is handled only after all emergency and priority traffic is cleared. The Red Cross equivalent to an incoming Welfare message is DWI (Disaster Welfare Inquiry).

ROUTINE Most traffic in normal times will bear this designation. In disaster situations, traffic labeled Routine (*R* on CW/RTTY) should be handled last, or not at all when circuits are busy with higher precedence traffic.

NOTE: The precedence always follows the message number. For an example, a message number may be 207 *R* on CW and "Two Zero Seven Routine" on phone.

ARRL NUMBERED RADIOGRAMS

The letters ARL are inserted in the preample in the check and in the text before spelled out numbers, which represent texts from this list. Note that some ARL texts include insertion of numerals. *Example:* NR 1 R W1AW ARL 5 NEWINGTON CONN JUNE 1 DONALD R SMITH AA 164 EAST SIXTH AVE AA NORTH RIVER CITY MO AA PHONE 733 3968 BT ARRL FIFTY ARL SIXTY ONE BT DIANA AR. For additional information about traffic handling, consult *The ARRL Operating Manual.*

Group One—For Possible "Relief Emergency" Use

ONE	Everyone safe here. Please don't worry.
TWO	Coming home as soon as possible.
THREE	Am in _____ hospital. Receiving excellent care and recovering fine.
FOUR	Only slight property damage here. Do not be concerned about disaster reports.
FIVE	Am moving to new location. Send no further mail or communication. Will inform you of new address when relocated.
SIX	Will contact you as soon as possible.
SEVEN	Please reply by Amateur Radio through the amateur delivering this message. This is a free public service.
EIGHT	Need additional _____ mobile or portable equipment for immediate emergency use.
NINE	Additional _____ radio operators needed to assist with emergency at this location.
TEN	Please contact _____ . Advise to standy and provide further emergency information, instructions or assistance
ELEVEN	Establish Amateur Radio emergency communications with _____ on _____ MHz.
TWELVE	Anxious to hear from you. No word in some time. Please contact me as soon as possible.
THIRTEEN	Medical emergency situation exists here.
FOURTEEN	Situation here becoming critical. Losses and damage from _____ increasing.
FIFTEEN	Please advise your conditiona and what help is needed.
SIXTEEN	Property damage very severe in this are.
SEVENTEEN	REACT communications services also available. Establish REACT communications with _____ on channel _____.
EIGHTEEN	Please contact me as soon as possible at _____.
NINETEEN	Request health and welfare report on _____. (State name, address and telephone number.)
TWENTY	Temporarily stranded. Will need some assistance. Please contact me at _____.
TWENTY ONE	Search and Rescue assistance is needed by local authoriries here. Advise availability.
TWENTY TWO	Need accurate information on the extent and type of conditions new existing at your location. Please furnish this information and reply without delay.
TWENTY THREE	Report at once the accessibility and best way to reach your location.
TWENTY FOUR	Evacuation of residents from this area urgently needed. Advise plans for help.
TWENTY FIVE	Furnish as soon as possible the weather conditions at your location.
TWENTY SIX	Help and care for evacuation of sick and injured from this location needed at once.

Emergency/priority messages originating from official sources, must carry the signature of the originating official.

Group Two—Routine messages

FORTY SIX	Greetings on your birthday and best wishes for many more to come.
FIFTY	Greetings by Amateur Radio
FIFTY ONE	Greetings by Amateur Radio. This message is sent as a free public service by ham radio operators here at _____ . Am having a wonderful time.
FIFTY TWO	Really enjoyed being with you. Looking forward to getting together again.
FIFTY THREE	Received your _____ . It's appreciated; many thanks.
FIFTY FOUR	Many thaks for your good wishes.
FIFTY FIVE	Good news is always welcome. Very delighted to hear about yours.
FIFTY SIX	Congratulations on your _____ , a most worthy and deserved achievement.
FIFTY SEVEN	Wish we could be together.
FIFTY EIGHT	Have a wonderful time. Let us know when you return.
FIFTY NINE	Congratulations on the new arrival. Hope mother and child are well.
*SIXTY	Wishing you the best of everything on _____ .
SIXTY ONE	Wishing you a very merry Christmas and a happy New Year.
*SIXTY TWO	Greetings and best wishes to you for a pleasant _____ holiday season.
SIXTY THREE	Victory or defeat, our best wishes are with you. Hope you win.
SIXTY FOUR	Arrived safely at _____ .
SIXTY FIVE	Arriving _____ on _____ . Please arrange to meet me there.
SIXTY SIX	DX QSLs are on hand for you at the _____ QSL Bureau. Send _____ self addressed envelopes.
SIXTY SEVEN	Your message number _____ undeliverable because of _____ . Please advise.
SIXTY EIGHT	Sorry to hear that you are ill. Best wishes for a speedy recovery.

ARL NUMBERS SHOULD BE SPELLED OUT AT ALL TIMES

*Can be used for all holidays.

License Renewal Information

1) To renew your license, complete FCC Form 610 (available from ARRL HQ; SASE, please) being careful not to miss any applicable boxes or blanks that apply. Type or print neatly in pen. Only June 1984 and later editions of FCC Form 610 may be used.

2) Remember to attach a photocopy (or the original) of your license to the Form 610.

3) Mail your application to FCC, PO Box 1020, Gettysburg, PA 17326. There is no fee for renewing an amateur license.

4) Application to renew should be made approximately 90 days before expiration; however, renewal can be applied for at any time during the term of the license.

5) It's a good idea to retain a copy of your application as proof of filing before the expiration date of your license. If you filed *before* the license expiration date, you may continue to operate beyond the expiration date and until the new license arrives. Otherwise you may not operate until you receive a new license.

6) If your license has already expired, it is still possible to renew. The FCC allows a 5-year grace period, after the expiration date, for licenses with a 5-year term. (Note that the new ten-year term licenses, which have been issued since January 1984, have only a 2-year grace period before *both* the license and the call sign expire. After two years of the grace period have elapsed, you will lose your call sign and be assigned a new one.)

7) If you are simply modifying your license (change of address, for example), you must also fill out Form 610. Incidentally, your license will also be automatically renewed at this time.

8) If you have any questions or problems, drop a note to the Regulatory Information Branch, ARRL HQ.

US AMATEUR BANDS

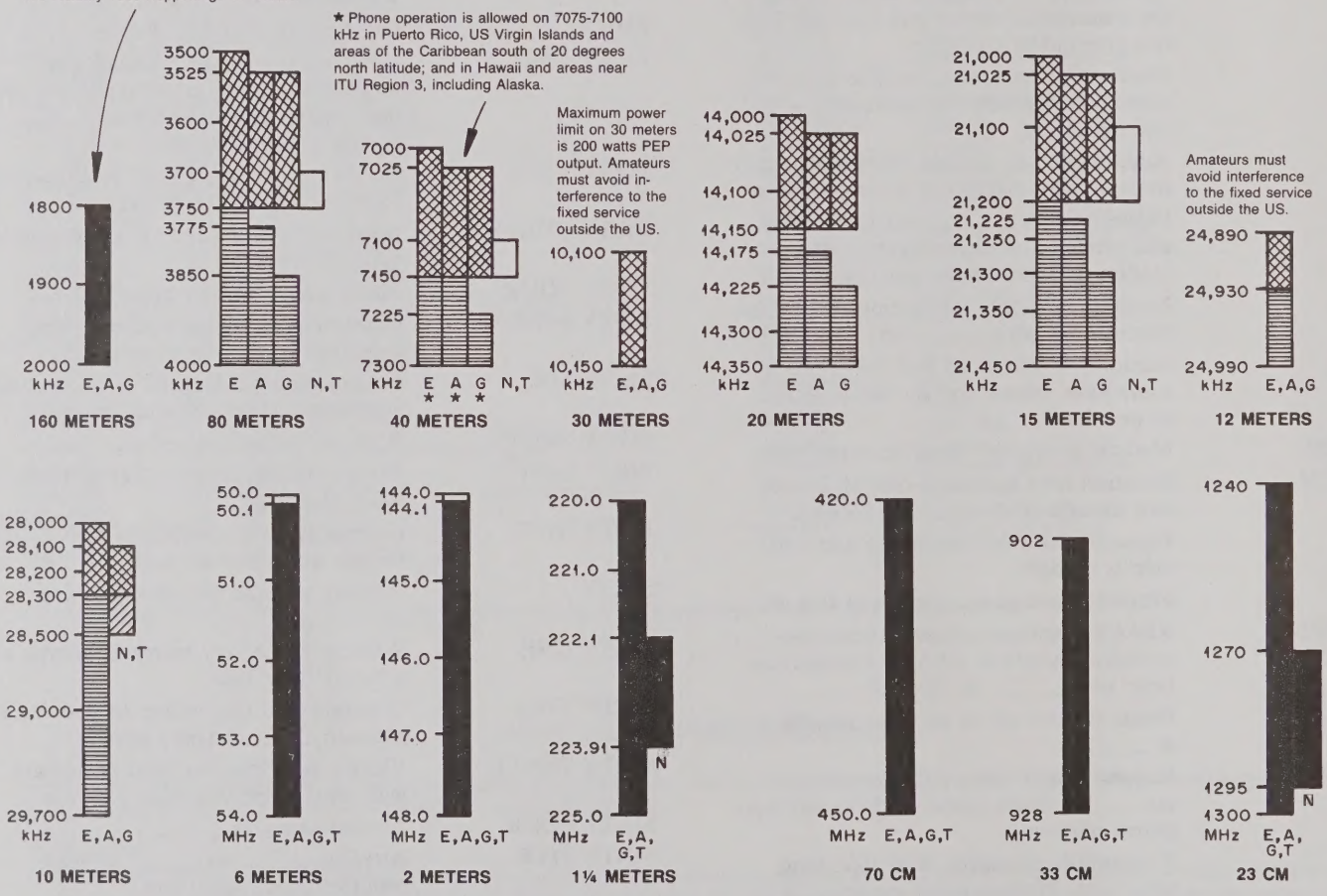
(Effective 0001Z, March 21, 1987)

Amateur stations operating at 1900-2000 kHz must not cause harmful interference to the radiolocation service and are afforded no protection from radiolocation operations; see January 1986 Happenings for details.

★ Phone operation is allowed on 7075-7100 kHz in Puerto Rico, US Virgin Islands and areas of the Caribbean south of 20 degrees north latitude; and in Hawaii and areas near ITU Region 3, including Alaska.

Maximum power limit on 30 meters is 200 watts PEP output. Amateurs must avoid interference to the fixed service outside the US.

Amateurs must avoid interference to the fixed service outside the US.



Operators with Technician class licenses and above may operate on all amateur bands above 50 MHz. For more detailed information see *The FCC Rule Book*.

5167.5 kHz Alaska emergency use only (SSB only) E, A, G, T, N

KEY

- □ = CW ONLY
- ▩ = CW AND RTTY
- ▤ = CW, VOICE, SSTV AND FAX
- ■ = CW, VOICE, SSTV, FAX AND RTTY
- ▨ = CW AND SSB

E = EXTRA
A = ADVANCED
G = GENERAL
T = TECHNICIAN
N = NOVICE

US AMATEUR POWER LIMITS

At all times, transmitter power should be kept down to that necessary to carry out the desired communications. Power is rated in watts PEP output. Unless otherwise stated, the maximum power output is 1500 W. Power for all license classes is limited to 200 W in the 10,100-10,150 kHz band and in all Novice subbands below 28,100 kHz. Novices and Technicians are restricted to 200 W in the 28,100-28,500 kHz subband. In addition, Novices are restricted to 25 W in the 222.1-223.91 MHz subband and 5 W in the 1270-1295 MHz subband.

For the most up-to-date information, please check the latest edition of *The FCC Rule Book* or the "Happenings" column in *QST*.

INTERNATIONAL Q SIGNALS

A Q signal followed by a ? asks a question. A Q signal without the ? answers the question affirmatively, unless otherwise indicated.

QRA	What is the name of your station?
QRG	What's my exact frequency?
QRH	Does my frequency vary?
QRI	What is my signal intelligibility? (1-5)
QRL	Are you busy?
QRM	Is my transmission being interfered with?
QRN	Are you troubled by static?
QRO	Shall I increase transmitter power?
QRP	Shall I decrease transmitter power?
QRQ	Shall I send faster?
QRS	Shall I send slower?
QRT	Shall I stop sending?
QRU	Have you anything for me? (Answer in negative).
QRV	Are you ready?
QRW	Shall I tell ..... you're calling him?
QRX	When will you call again?
QRZ	Who is calling me?
QSA	What is my signal strength? (1-5)
QSB	Are my signals fading?
QSD	Is my keying defective?
QSG	Shall I send ..... messages at a time?
QSK	Can you work breakin?
QSL	Can you acknowledge receipt?
QSM	Shall I repeat the last message sent?
QSO	Can you communicate with ..... direct?
QSP	Will you relay to ..... ?
QSV	Shall I send a series of V's?
QSW	Will you transmit on ..... ?
QSX	Will you listen for ..... on ..... ?
QSY	Shall I change frequency?
QSZ	Shall I send each word/group more than once? (Answer, send twice or .....)
QTA	Shall I cancel number ..... ?
QTB	Do you agree with my word count? (Answer negative)
QTC	How many messages have you to send?
QTH	What is your location
QTR	What is your time?
QTV	Shall I stand guard for you ..... ?
QTX	Will you keep your station open for further communication with me?
QUA	Have you news of ..... ?

ITU PHONETIC ALPHABET

Word list adopted by the International Telecommunication Union

A	ALFA	**N**	NOVEMBER
B	BRAVO	**O**	OSCAR
C	CHARLIE	**P**	PAPA
D	DELTA	**Q**	QUEBEC
E	ECHO	**R**	ROMEO
F	FOXTROT	**S**	SIERRA
G	GOLF	**T**	TANGO
H	HOTEL	**U**	UNIFORM
I	INDIA	**V**	VICTOR
J	JULIET	**W**	WHISKEY
K	KILO	**X**	X-RAY
L	LIMA	**Y**	YANKEE
M	MIKE	**Z**	ZULU

IN AN EMERGENCY

Monitor your local emergency frequency.

Make contact with your local EC or RO.

Take immediate steps to follow any prearranged plans.

Stay off the air unless or until you are *sure* you can be of assistance.

In widespread emergencies, monitor W1AW for latest bulletins and news.

TIME CONVERSION CHART

UTC	EDT/AST	CDT/EST	MDT/CST	PDT/MST	PST
0000*	2000	1900	1800	1700	1600
0100	2100	2000	1900	1800	1700
0200	2200	2100	2000	1900	1800
0300	2300	2200	2100	2000	1900
0400	0000*	2300	2200	2100	2000
0500	0100	0000*	2300	2200	2100
0600	0200	0100	0000*	2300	2200
0700	0300	0200	0100	0000*	2300
0800	0400	0300	0200	0100	0000*
0900	0500	0400	0300	0200	0100
1000	0600	0500	0400	0300	0200
1100	0700	0600	0500	0400	0300
1200	0800	0700	0600	0500	0400
1300	0900	0800	0700	0600	0500
1400	1000	0900	0800	0700	0600
1500	1100	1000	0900	0800	0700
1600	1200	1100	1000	0900	0800
1700	1300	1200	1100	1000	0900
1800	1400	1300	1200	1100	1000
1900	1500	1400	1300	1200	1100
2000	1600	1500	1400	1300	1200
2100	1700	1600	1500	1400	1300
2200	1800	1700	1600	1500	1400
2300	1900	1800	1700	1600	1500
2400	2000	1900	1800	1700	1600

Coordinated Universal Time (UTC) is the time at the zero or reference meridian. Time changes one hour with each change of 15° in longitude. The five time zones in the U.S. proper and Canada roughly follow these lines.

*0000 and 2400 are interchangeable. 2400 is associated with the date of the day ending. 0000 with the day just starting.

THE R-S-T SYSTEM

READABILITY

1—Unreadable.
2—Barely readable, occasional words distinguishable.
3—Readable with considerable difficulty.
4—Readable with practically no difficulty.
5—Perfectly readable.

SIGNAL STRENGTH

1—Faint signals, barely perceptible.
2—Very weak signals.
3—Weak signals.
4—Fair signals.
5—Fairly good signals.
6—Good signals.
7—Moderately strong signals.
8—Strong signals.
9—Extremely strong signals.

TONE

1—Sixty cycle ac or less, very rough and broad.
2—Very rough ac, very harsh and broad.
3—Rough ac tone, rectified but not filtered.
4—Rough note, some trace of filtering.
5—Filtered rectified ac, but strongly ripply-modulated.
6—Filtered tone, definite trace of ripple modulation.
7—Near pure tone, trace of ripple modulation.
8—Near perfect tone, slight trace of modulation.
9—Perfect tone, no trace of ripple, or modulation of any kind.

If the signal has the characteristic steadiness of crystal control, add the letter X to the RST report. If there is a chirp, the letter C may be added to so indicate. Similarly for a click, add K. The above reporting system is used on both CW and voice, leaving out the "tone" report on voice.

A
R
R
L